

[illegible]

```
LL      NN      NN      KK      KK      000000      BBBB8888      JJ      FFFFFFFF      IIIIII      LL
LL      NN      NN      KK      KK      000000      88888888      JJ      FFFFFFFF      IIIIII      LL
LL      NN      NN      KK      KK      00      00      88      88      JJ      FF      II      LL
LL      NN      NN      KK      KK      00      00      88      88      JJ      FF      II      LL
LL      NNNN      NN      KK      KK      00      00      88      88      JJ      FF      II      LL
LL      NNNN      NN      KK      KK      00      00      88      88      JJ      FF      II      LL
LL      NN      NN      KKKKKK      KK      00      00      88888888      JJ      FFFFFFFF      II      LL
LL      NN      NN      KKKKKK      KK      00      00      88888888      JJ      FFFFFFFF      II      LL
LL      NN      NNNN      KK      KK      00      00      88      88      JJ      FF      II      LL
LL      NN      NNNN      KK      KK      00      00      88      88      JJ      FF      II      LL
LL      NN      NN      KK      KK      00      00      88      88      JJ      FF      II      LL
LL      NN      NN      KK      KK      00      00      88      88      JJ      FF      II      LL
LLLLLLLLLL      NN      NN      KK      KK      000000      88888888      JJJJJJ      FF      IIIIII      LLLLLLLLLL      ....
LLLLLLLLLL      NN      NN      KK      KK      000000      88888888      JJJJJJ      FF      IIIIII      LLLLLLLLLL      ....
```

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```


B 9
16-Sep-1984 00:10:55
14-Sep-1984 12:40:32

VAX-11 Bliss-32 V4.0-742
[LINKER.SRC]LNKOBJFIL.B32;1

Page 1
(1)

```
0001 0 module lnk_objfil
0002 0      (ident = 'V04-000'
0003 0      ,addressing_mode
0004 0      (external = general)
0005 0      ) =
0006 1 begin
0007 1
0008 1
0009 1 *****
0010 1 *
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0028 1 *
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1
0034 1
0035 1
0036 1 ++
0037 1
0038 1 MODULE:      LNK_OBJFIL
0039 1
0040 1 FACILITY:    LINKER
0041 1
0042 1 ABSTRACT:    ROUTINES TO OPEN AND READ ALL RECORDS OF OBJECT FILES
0043 1
0044 1 HISTORY:
0045 1
0046 1     VERSION:      X01.00
0047 1
0048 1     AUTHOR: T.J. PORTER 03-MAY-77
0049 1
0050 1 MODIFIED BY:
0051 1
0052 1     V03-022 ADE0004      Alan D. Eldridge      17-Jul-1984
0053 1     Search default cluster when looking for a library to
0054 1     close as well as the cluster list.
0055 1
0056 1     V03-021 ADE0003      Alan D. Eldridge      11-Jul-1984
0057 1     Fix infinite loop which occurred in selected cases when
```

58	0058	1	the librarian had too many files open.
59	0059	1	
60	0060	1	V03-020 ADE0002 Alan D. Eldridge 30-Apr-1984
61	0061	1	Signal proper RMS error status upon failure to open a
62	0062	1	shared image.
63	0063	1	
64	0064	1	V03-019 ADE0001 Alan D. Eldridge 7-Mar-1984
65	0065	1	Close a file and retry on a LBR\$_TOOMNYLIB error from
66	0066	1	LBR\$OPEN.
67	0067	1	
68	0068	1	V03-018 JWT0113 Jim Teague 20-Apr-1983
69	0069	1	Call \$getjpi to get number of open files left.
70	0070	1	
71	0071	1	V03-017 JWT0057 Jim Teague 30-Sep-1982
72	0072	1	Fixed bug in LNK\$CLOSEFILE logic.
73	0073	1	
74	0074	1	V03-016 JWT0054 Jim Teague 15-Sep-1982
75	0075	1	Fix another bug in LNK\$CLOSEFILE logic. The initial
76	0076	1	input file processing can now more intelligently specify
77	0077	1	a file to close when necessary. Also streamline LNK\$NXTFIL.
78	0078	1	
79	0079	1	V03-015 JWT0051 Jim Teague 11-Aug-1982
80	0080	1	Fix bug in LNK\$CLOSEFILE logic.
81	0081	1	
82	0082	1	V03-014 JWT0044 Jim Teague 30-Jul-1982
83	0083	1	Open file performance boost.
84	0084	1	
85	0085	1	V03-013 JWT0033 Jim Teague 25-May-1982
86	0086	1	Clear SQ0 bit if FDB has any non-TIR object modules
87	0087	1	
88	0088	1	--


```

90 0089 1 |
91 0090 1 | ++
92 0091 1 |
93 0092 1 | FUNCTIONAL DESCRIPTION:
94 0093 1 |
95 0094 1 | THIS MODULE CONTAINS A ROUTINE TO OPEN THE NEXT
96 0095 1 | OBJECT MODULE FILE AND ANOTHER TO READ THE NEXT
97 0096 1 | RECORD FROM THE CURRENTLY OPEN FILE. IT ALSO CONTAINS THE
98 0097 1 | ROUTINE TO CLOSE THE CURRENTLY OPEN FILE.
99 0098 1 |
100 0099 1 | LNK$NXTFIL
101 0100 1 | LNK$NXTREC(RECADRS,RECLNG)
102 0101 1 | LNK$CLOSCURFIL()
103 0102 1 |
104 0103 1 | IF THERE ARE NO MORE FILES OR RECORDS, ROUTINES HAVE THE VALUE FALSE.
105 0104 1 | IF FILE IS SUCCESSFULLY OPENED (BY FILE ID USING LINKED LIST OF FDB'S)
106 0105 1 | LNK$NXTFIL HAS THE VALUE TRUE AND THE ADDRESS OF THE
107 0106 1 | FILE DESCRIPTOR BLOCK IS PLACED IN LNK$GL_CURFIL.
108 0107 1 |
109 0108 1 | THERE IS NO RETURN ON THE FOLLOWING ERROR CONDITIONS:
110 0109 1 | OPEN FAILURE
111 0110 1 | CONNECT FAILURE
112 0111 1 |
113 0112 1 | CALLING SEQUENCE:
114 0113 1 | LNK$NXTFIL()
115 0114 1 | LNK$NXTREC(RECADRS,RECLNG)
116 0115 1 | LNK$CLOSCURFIL()
117 0116 1 | WHERE:
118 0117 1 | RECADRS = ADDRESS OF LONGWORD TO RECEIVE THE
119 0118 1 | ADDRESS OF NEXT RECORD.
120 0119 1 | RECLNG = ADDRESS OF A WORD TO RECEIVE LENGTH
121 0120 1 | OF THE RECORD (IN BYTES).
122 0121 1 | THE ROUTINE RETURNS THE VALUE TRUE, UNLESS END OF FILE
123 0122 1 | IS DETECTED, WHEN IT RETURNS THE VALUE FALSE.
124 0123 1 | --
125 0124 1 |
126 0125 1 | library 'SYS$LIBRARY:STARLET.L32'; ! SYSTEM STRUCTURE DEFINITIONS
127 0126 1 | require 'PREFIX';
128 0127 1 |
129 0128 1 | library 'DATBAS'; ! INTERNAL DATA BASE DEFINITIONS
130 0243 1 |
131 0244 1 | !
132 0245 1 | forward routine
133 0246 1 | tran_next lib, ! RETURN NEXT DEFAULT LIBRARY NAME
134 0247 1 | lnk$closefile : novalue, ! SEARCH FOR A FILE TO CLOSE
135 0248 1 | lnk$openlib; ! OPEN LIBRARY
136 0249 1 |
137 0250 1 |
138 0251 1 | external routine
139 0252 1 | lnk$alloblk : novalue, ! DYNAMIC MEMORY ALLOCATOR
140 0253 1 | lnk$dealblk : novalue, ! AND DEALLOCATOR
141 0254 1 | lnk$alloccluster : novalue, ! ALLOCATE CLUSTER DESCRIPTORS
142 0255 1 | lnk$allofdb : novalue, ! ALLOCATE FILE DESCRIPTOR BLOCKS
143 0256 1 | lnk$filnamdsc, ! RETURN STRING DESCRIPTOR FOR FILENAME
144 0257 1 | sys$fao, ! FORMATTED ASCII OUTPUT
145 0258 1 | lbr$lookup_key, ! LOOKUP KEY IN MODULE
146 0259 1 | lbr$set_module, ! READ MODULE HEADER
```

```
147 0260 1 lbr$find,
148 0261 1 lbr$ini_control,
149 0262 1 lbr$get_record,
150 0263 1 lbr$open,
151 0264 1 lbr$close;
152 0265 1
153 0266 1 external literal
154 0267 1 lbr$_toomnylib,
155 0268 1 lns$_closein,
156 0269 1 lns$_format,
157 0270 1 lns$_libfind,
158 0271 1 lns$_notobjlib,
159 0272 1 lns$_notimglib,
160 0273 1 lns$_openin,
161 0274 1 lns$_readerr;
162 0275 1
163 0276 1 external
164 0277 1 lns$_gt_ipilst,
165 0278 1 lns$_gl_filesleft,
166 0279 1 lbr$_gl_control : ref block [,byte],
167 0280 1 lbr$_gl_rmsstv,
168 0281 1 lns$_gl_ulibmask : bitvector [],
169 0282 1 lns$_gl_ctlmsk : block [,byte],
170 0283 1 lns$_gl_clulst : vector [2],
171 0284 1 lns$_gl_lastclu : ref block [,byte],
172 0285 1 lns$_gl_curclu : ref block [,byte],
173 0286 1 lns$_gl_defclu : block [,byte],
174 0287 1 lns$_gw_nudfsyms : word,
175 0288 1 lns$_gb_pass : byte;
176 0289 1
177 0290 1 global literal
178 0291 1 lns$_c_objmbc = 5;
179 0292 1
180 0293 1 global
181 0294 1 lns$_gl_open_lbr : initial (0),
182 0295 1 lns$_gl_objrecs,
183 0296 1 lns$_gl_record,
184 0297 1 lns$_al_rab : $rab (rac = seq
185 P 0298 1 ,rop = loc
186 P 0299 1 ,mbc = lns$_c_objmbc
187 0300 1
188 0301 1 lns$_gl_curomd : ref block [,byte],
189 0302 1 lns$_gl_curfil : ref block [,byte];
190 0303 1
191 0304 1 own
192 0305 1 openclus : ref block [,byte],
193 0306 1 openfdb : ref block [,byte],
194 0307 1 start_fdb,
195 0308 1 input_fab : block [fab$_c_bln, byte],
196 0309 1 intfiltbl : quadvector [2]
197 0310 1 initial (stringdesc ('STARLET'))
198 0311 1 ,stringdesc ('IMAGELIB')
199 0312 1
200 0313 1 syslibdefext : descriptor ('SYSS$LIBRARY:.OLB'),
201 0314 1 curdefext : block [dsc$_c_s_bln, byte],
202 0315 1 libdefext : descriptor ('SYSS$DISK:.OLB'),
203 0316 1 shrdefext : descriptor ('SYSS$LIBRARY:.EXE'),
```

! POSITION TO READ MODULE
! INITIALIZE TO READ LIBRARY
! READ RECORD FROM LIBRARY
! OPEN LIBRARY
! CLOSE LIBRARY

! TOO MANY .OLB's FOR LIBRARIAN
! CLOSE ERROR MESSAGE
! FORMAT ERROR ON A FILE
! FAILED TO GET (BY RFA) CORRECT LIBR RECORD
! FILE NOT OBJECT LIBRARY
! FILE NOT SHAREABLE IMAGE STB LIBRARY
! FAILED TO OPEN INPUT FILE
! READ ERROR

! CURRENT LIBRARY CONTROL ADDRESS
! RMS STV FROM LIBRARY OPERATIONS
! ENABLE BITS FOR USER LIBRARIES
! CONTROL FLAGS
! CLUSTER DESCRIPTOR LISTHEAD
! LAST CLUSTER IN LIST DESCR.
! CURRENT CLUSTER POINTER
! DEFAULT CLUSTER
! NUMBER OF UNDEFINED SYMBOLS
! THE PASS CURRENTLY EXECUTING

! MULTI BLOCK COUNT FOR OBJ FILES

! NUMBER OF CURRENTLY OPEN LIBRARIES
! ACCUMULATED OBJECT RECORDS READ
! RECORD NUMBER THIS FILE
! RECORD ACCESS BLOCK SPECIFYING
! SEQUENTIAL, LOCATE MODE
! WITH MULTIPLE BLOCKS

! POINTER TO CURRENT OBJ MOD. DESCRIPTOR
! POINTER TO CURRENT FDB

! PTR TO CURRENT CLUSTER FOR OPEN FILE SEARCHES
! PTR TO CURRENT CLUSTER FDB FOR OPEN FILE SEARCHES
! STARTING POINT IN FDB SEARCH
! FAB BLOCK FOR INPUT FILES
! TABLE OF INTERNAL FILES
! SYSTEM DEFAULT OBJECT LIBRARY
! LIBRARY OF SHAREABLE IMAGE SYMBOL TABLES

! DEFAULT FILENAME FOR STARLET AND IMAGELIB
! STRING DESCRIPTOR FOR CURRENT DEFAULT STRING
! DEFAULT FILENAME FOR USER LIBRARY
! DEFAULT FILENAME FOR SHAREABLE IMAGES

LNK_OBJFIL
V04=000

F 9
16-Sep-1984 00:10:55
14-Sep-1984 12:40:32

VAX-11 Bliss-32 V4.0-742
[LINKER.SRC]LNKOBJFIL.B32;1

Page 5
(2)

:	204	0317	1	libnamefao	:	descriptor ('LNK\$LIBRARY_!UW'),	:	FAO CONTROL STRING TO CREATE USER LIBRARY NAMES
:	205	0318	1	previous_fdb	:	ref block [,byte],	:	POINTER TO PREVIOUS FDB.
:	206	0319	1	lastuserclu	:	ref block [,byte],	:	POINTER TO LAST USER CLUSTER (OR DEFAULT)
:	207	0320	1	nextintfil	:	byte initial (3),	:	FOUR INTERNAL FILES
:	208	0321	1	userlibno,	:		:	NUMBER OF NEXT DEFAULT USER LIBRARY
:	209	0322	1	first_time	:	byte initial (true),	:	INITIALLY FIRST TIME THROUGH
:	210	0323	1	default_lib	:	byte initial (false),	:	AND NOT PROCESSING DEFAULT LIBRARIES
:	211	0324	1	deflibacmode	:	byte initial (0),	:	ACCESS MODE INDEX
:	212	0325	1	deflibdsbmsk	:	vector [4,byte] initial (%x'060503'),	:	DISABLE TABLE SEARCH BIT MASK
:	213	0326	1	resultstring	:	vector [nam\$c_maxrss,byte],	:	RESULT OF TRANSLATING LOGICAL NAME
:	214	0327	1	libnamdescr	:	vector [2]	:	DESCRIPTOR OF RESULTANT NAME BUFFER
:	215	0328	1		:	initial (nam\$c_maxrss,resultstring);	:	

```
217 0329 1 global routine lnk$nextfil =
218 0330 2 begin
219 0331 2
220 0332 2 CLOSE THE PREVIOUSLY OPEN FILE AND THEN
221 0333 2 IF THERE ARE ANY MORE FILES IN THE TABLE GO OPEN THE
222 0334 2 NEXT AND PUT ADDRESS OF ITS DESCRIPTOR IN CURRENT SLOT. IF
223 0335 2 NONE, RETURN FALSE.
224 0336 2
225 0337 2 routine openit =
226 0338 2 begin
227 0339 2
228 0340 2 THIS ROUTINE ATTEMPTS TO OPEN FILES AND RETURNS THE
229 0341 2 STATUS OF THE OPEN
230 0342 2
231 0343 2 local openok;
232 0344 2
233 0345 2 if .lnk$gl_curfil [fdb$w_ifi] neq 0
234 0346 2 then return true
235 0347 2 else begin
236 0348 2 openok = $open (fab=input_fab);
237 0349 2 if not .openok
238 0350 2 then if .lnk$gl_curclu [clu$v_intclu]
239 0351 2 then begin
240 0352 2 input_fab [fab$b_dns] = .shrdefext [0];
241 0353 2 input_fab [fab$l_dna] = .shrdefext [1];
242 0354 2 openok = $open (fab=input_fab); ! TRY AGAIN
243 0355 2 end;
244 0356 2 return (.openok);
245 0357 2 end;
246 0358 2 end;

! IF IFI IS INITIALIZED, THEN
! THE FILE IS ALREADY OPEN
! FILE IS NOT OPEN, SO
! TRY OPENING THE FILE
! IF OPEN FAILED AND THIS IS AND
! THIS IS INTERNALLY MATERIALIZED
! CLUSTER, THEN TRY SYSS$LIBRARY:

! RETURN OPEN STATUS
! OF OPENIT
```

```

.TITLE LNK_OBJFIL
.IDENT \V04-000\

.PSECT $PLITS$,NOWRT,NOEXE,2

00 54 45 4C 52 41 54 53 00000 P.AAA: .ASCII \STARLET\<0>
4C 4F 2E 3A 59 52 41 52 42 49 4C 24 53 59 53 00008 P.AAB: .ASCII \IMAGELIB\
00 00 42 4C 4F 2E 3A 4B 53 49 44 24 53 59 53 00010 P.AAC: .ASCII \SYSS$LIBRARY:.OLB\
58 45 2E 3A 59 52 41 52 42 49 4C 24 53 59 53 0001F
57 55 21 5F 59 52 41 52 42 49 4C 24 4B 4E 4C 00020 P.AAD: .ASCII \SYSS$DISK:.OLB\<0><0><0>
00 0002F
00030 P.AAE: .ASCII \SYSS$LIBRARY:.EXE\
0003F
00040 P.AAF: .ASCII \LNK$LIBRARY_!UW\<0>
0004F
```

```

.PSECT $OWNS$,NOEXE,2

00000 OPENCLUS:
00004 OPENFDB: .BLKB 4
00008 START_FDB:
0000C INPUT_FAB: .BLKB 4
0000C INPUT_FAB: .BLKB 80
```



```
00000007 0005C INTFILTB:
                                .LONG 7
00000000' 00060 .ADDRESS P.AAA
00000008 00064 .LONG 8
00000000' 00068 .ADDRESS P.AAB
00000010 0006C SYSLIBDEFEXT:
                                .LONG 16
00000000' 00070 .ADDRESS P.AAC
                                00074 CURDEFEXT:
                                .BLKB 8
0000000D 0007C LIBDEFEXT:
                                .LONG 13
00000000' 00080 .ADDRESS P.AAD
00000010 00084 SHRDEFEXT:
                                .LONG 16
00000000' 00088 .ADDRESS P.AAE
0000000F 0008C LIBNAMEFAO:
                                .LONG 15
00000000' 00090 .ADDRESS P.AAF
                                00094 PREVIOUS_FDB:
                                .BLKB 4
                                00098 LASTUSERCLU:
                                .BLKB 4
03 0009C NEXTINTFIL:
                                .BYTE 3
                                0009D .BLKB 3
                                000A0 USERLIBNO:
                                .BLKB 4
01 000A4 FIRST_TIME:
                                .BYTE 1
00 000A5 DEFAULT_LIB:
                                .BYTE 0
00 000A6 DEFLIBACMODE:
                                .BYTE 0
                                000A7 .BLKB 1
00060503 000A8 DEFLIBDSBMSK:
                                .LONG 394499
                                000AC RESULTSTRING:
                                .BLKB 255
                                001AB .BLKB 1
000000FF 001AC LIBNAMDESCR:
                                .LONG 255
00000000' 001B0 .ADDRESS RESULTSTRING
                                .PSECT $GLOBAL$,NOEXE,2

00000000 00000 LNK$GL_OPEN_LBR::
                                .LONG 0
                                00004 LNK$GL_OBJRECS::
                                .BLKB 4
                                00008 LNK$GL_RECORD::
                                .BLKB 4
01 0000C LNK$AL_RAB::
                                .BYTE 1
44 0000D .BYTE 68
0000 0000E .WORD 0
00010000 00010 .LONG 65536
```

```
00000000 00014 .LONG 0
00000000 00018 .LONG 0
0000# 0001C .WORD 0[3]
0000 00022 .WORD 0
00000000 00024 .LONG 0
0000 00028 .WORD 0
00 0002A .BYTE 0
00 0002B .BYTE 0
0000 0002C .WORD 0
0000 0002E .WORD 0
00000000 00030 .LONG 0
00000000 00034 .LONG 0
00000000 00038 .LONG 0
00000000 0003C .LONG 0
00 00040 .BYTE 0
00 00041 .BYTE 0
00 00042 .BYTE 0
05 00043 .BYTE 5
00000000 00044 .LONG 0
00000000 00048 .LONG 0
00000000 0004C .LONG 0
```

```
00050 LNK$GL_CUROMD::
      .BLKB 4
00054 LNK$GL_CURFIL::
      .BLKB 4
```

```
LNK$C_OBJMBC== 5
      .EXTRN LNK$ALLOBLK, LNK$DEALBLK
      .EXTRN LNK$ALLOCLUSTER
      .EXTRN LNK$ALLOFDB, LNK$FILNAMDSC
      .EXTRN SYSSFAO, LBR$LOOKUP KEY
      .EXTRN LBR$SET_MODULE, LBR$FIND
      .EXTRN LBR$INI_CONTROL
      .EXTRN LBR$GET_RECORD, LBR$OPEN
      .EXTRN LBR$CLOSE, LBR$TOOMNYLIB
      .EXTRN LINS_CLOSEIN, LINS_FORMAT
      .EXTRN LINS_LIBFIND, LINS_NOTOBJLIB
      .EXTRN LINS_NOTIMGLIB, LINS_OPENIN
      .EXTRN LINS_READERR, LNK$GT_JPILST
      .EXTRN LNK$GL_FILESLEFT
      .EXTRN LBR$GL_CONTROL, LBR$GL_RMSSTV
      .EXTRN LNK$GL_ULIBMASK
      .EXTRN LNK$GL_CTLMSK, LNK$GL_CLULST
      .EXTRN LNK$GL_LASTCLU, LNK$GL_CURCLU
      .EXTRN LNK$GL_DEFCLU, LNK$GW_NUDFSYMS
      .EXTRN LNK$GB_PASS, SYSSOPEN
```

```
.PSECT $CODE$,NOWRT,2
```

```
53 00000000G 000C 00000 OPENIT: .WORD Save R2,R3
52 0000' 00 9E 00002 MOVAB SYSSOPEN, R3
50 0000' CF 9E 00009 MOVAB INPUT FAB, R2
      24 AO D0 0000E MOVL LNK$GL_CURFIL, R0
      04 B5 00013 TSTW 36(R0)
      04 13 00016 BEQL 1$
50 01 D0 00018 MOVL #1, R0
      04 0001B RET
```

```
: 0337
:
: 0345
:
: 0347
:
```


			52	DD	0001C	1\$:	PUSHL	R2			0348
	63		01	FB	0001E		CALLS	#1, SYSS\$OPEN			
	1B		50	E8	00021		BLBS	OPENOK, 2\$			0349
	51	00000000G	00	D0	00024		MOVL	LNK\$GL_CURCLU, R1			0350
OF	59	A1	01	E1	0002B		BBC	#1, 89TR1), 2\$			
	35	A2	78	A2	90	00030	MOVB	SHRDEFEXT, INPUT FAB+53			0352
	30	A2	7C	A2	D0	00035	MOVL	SHRDEFEXT+4, INPOT_FAB+48			0353
			52	DD	0003A		PUSHL	R2			0354
	63		01	FB	0003C		CALLS	#1, SYSS\$OPEN			
			04	0003F	2\$:		RET				0358

; Routine Size: 64 bytes, Routine Base: \$CODE\$ + 0000

```
247 0359 2 |
248 0360 2 |
249 0361 2 | Main body of LNK$NXTFIL
250 0362 2 |
251 0363 2 |
252 0364 2 | local
253 0365 2 |     current_ifi,
254 0366 2 |     turn_sqo_off      : byte,
255 0367 2 |     auxfnb            : ref block [,byte],
256 0368 2 |     rms_stv           : block [4,byte],
257 0369 2 |     errorcode
258 0370 2 |     open_sts;
259 0371 2 |
260 0372 2 | if .lnk$gl_curfil eql 0
261 0373 2 | then begin
262 0374 2 |     lnk$gl_curclu = .lnk$gl_clulst [0];
263 0375 2 |     previous_fdb = lnk$gl_curclu [clu$l_fstfdb];
264 0376 2 | end
265 0377 2 | else begin
266 0378 2 |     if .lnk$gl_curfil [fdb$v_imglib]
267 0379 2 |     or .lnk$gb_pass eql 2
268 0380 2 |     then lnk$closefile (.lnk$gl_curfil);
269 0381 2 |
270 0382 2 |     if .lnk$gb_pass eql 1
271 0383 2 |     then lnk$gl_curfil [fdb$v_p1] = true;
272 0384 2 |
273 0385 2 |     if .lnk$gl_curfil [fdb$v_libr]
274 0386 2 |     and .lnk$gl_curfil [fdb$l_omdlst] eql 0
275 0387 2 |     then begin
276 0388 2 |         lnk$closefile (.lnk$gl_curfil);
277 0389 2 |         previous_fdb [fdb$l_nxtfdb] = .lnk$gl_curfil [fdb$l_nxtfdb];
278 0390 2 |         if .previous_fdb [fdb$l_nxtfdb] eql 0
279 0391 2 |         then lnk$gl_curclu [clu$l_lstfdb] = .previous_fdb;
280 0392 2 |         !**THIS IS A PROBLEM...THE BLOCK CAN'T BE DEALLOCATED!!!
281 0393 2 |         !*** LNK$DEALBLK (FDB$C_SIZE+NAM$C_BLN,.LNK$GL_CURFIL); ! AND DISPOSE OF ITS DESCRIPTOR
282 0394 2 |     end
283 0395 2 |
284 0396 2 |     else previous_fdb = .lnk$gl_curfil;
285 0397 2 |
286 0398 2 |     if .lnk$gl_curfil [fdb$w_ifi] neq 0
287 0399 2 |     then $disconnect (rab=lnk$al_rab);
288 0400 2 |
289 0401 2 |
```

! SHOULD SQO BE SHUT OFF?
! POINTER TO AUXILIARY FILE NAME BLOCK
! STV RETURNED ON RMS OPERATION
! ERROR CODE ON OPEN
! IF NO CURRENT FILE
! START AT TOP OF LIST
! OF CLUSTERS
! SETTING PREVIOUS TO ITS LISTHEAD
! ALWAYS CLOSE SHR IMG LIBS IMMEDIATELY
! DONE WITH FILE IF THIS IS PASS 2
! SO CLOSE THIS FILE
! IF THIS IS PASS 1
! THEN FLAG FILE PROCESSED IN PASS 1
! IF THAT LAST FILE WAS A LIBRARY
! AND NO MODULES WERE LOADED
! WE DO NOT NEED IT ANYMORE
! SO CLOSE IT AND
! REMOVE IT FROM THE LIST
! AND IF LAST ON THIS
! CLUSTER LIST, FIX EOL POINTER

! IF NOT EMPTY LIB, IT BECOMES THE PREVIOUS
! IF FILE LEFT OPEN,
! THEN DISCONNECT ITS RAB

```
290 0402 2 end;
291 0403 2
292 0404 2 while (lnk$gl_curfil = .previous_fdb [fdb$l_nxtfdb]) egl 0
293 0405 2 or (.lnk$gl_curfil [fdb$v_p1] and .lnk$gl_pass egl 1)
294 0406 2 do if .lnk$gl_curclu [clu$l_nxtclu] egl 0
295 0407 2 and (.lnk$gl_pass egl 1 and .nextintfil neq 0)
296 0408 2
297 0409 2 and .lnk$gl_nudfsyms neq 0
298 0410 2 and (((.nextintfil egl 3) and .lnk$gl_ctlmsk [lnk$v_usrlib])
299 0411 2 or
300 0412 2 ((.nextintfil gtr 0) and .lnk$gl_ctlmsk [lnk$v_syslib])
301 0413 2 )
302 0414 2 then begin
303 0415 2 local fileflags;
304 0416 2
305 0417 2 fileflags = fdb$m_libr or fdb$m_libsrch;
306 0418 2 if .first_time
307 0419 2 or .default_lib
308 0420 2 then begin
309 0421 2 first_time = false;
310 0422 2 if not .lnk$gl_ctlmsk [lnk$v_usrlib]
311 0423 2 or not tran_next_lib ()
312 0424 2 then begin
313 0425 2 nextintfil = 2;
314 0426 2 default_lib = false;
315 0427 2 lnk$gl_ctlmsk [lnk$v_usrlib] = false;
316 0428 2 if not .lnk$gl_ctlmsk [lnk$v_syslib]
317 0429 2 then begin
318 0430 2 lnk$gl_curfil = 0;
319 0431 2 return false;
320 0432 2 end;
321 0433 2
322 0434 2 else begin
323 0435 2 default_lib = true;
324 0436 2 userlibno = .userlibno + 1;
325 0437 2 nextintfil = 3;
326 0438 2 end;
327 0439 2 end;
328 0440 2
329 0441 2 if .nextintfil egl 2
330 0442 2 then if not .lnk$gl_ctlmsk [lnk$v_sysshr]
331 0443 2 then nextintfil = 1;
332 0444 2
333 0445 2 if (.default_lib or .nextintfil egl 1)
334 0446 2 then begin
335 0447 2 lnk$gl_curclu = lnk$gl_defclu;
336 0448 2 if .lnk$gl_defclu [clu$l_fstfdb] egl 0
337 0449 2 and .lnk$gl_defclu [clu$l_nxtclu] egl 0
338 0450 2 and .lnk$gl_lastclu neq lnk$gl_defclu
339 0451 2 then begin
340 0452 2 lnk$gl_lastclu [clu$l_nxtclu] = lnk$gl_defclu;
341 0453 2 lnk$gl_lastclu = lnk$gl_defclu;
342 0454 2 end;
343 0455 2 end;
344 0456 2
345 0457 2 previous_fdb = .lnk$gl_curclu [clu$l_lstfdb];
346 0458 2 lnk$allofdb (previous_fdb [fdb$l_nxtfdb]);
```

! GET NEXT FILE ON THIS CLUSTER LIST

! BUT IF THE END AND LAST CLUSTER
! OR THE DEFAULT CLUSTER ON
! AND WE HAVE NOT PROCESSED DEFAULT LIBRARIE
! AND THERE ARE STILL UNDEFINED SYMBOLS! SET DEFAULT FILE FLAGS
! IF THIS IS THE FIRST TIME
! OR IF PROCESSING USER LIBRARIES! NO LONGER FIRST TIME
! IF USER LIBRARIES ARE DISABLED
! OR NO MORE DEFAULT LIBRARIES! JUST SKIP IT
! DISABLE USER LIBRARIES

! IF SYSLIB DISABLED

! RETURN NO MORE FILES

! FLAG PROCESSING DEFAULT LIBRARIES
! SET FOR NEXT LIBRARY
! ENSURE INDEX IS CORRECT! IF READY TO PROCESS IMAGELIB
! IF /NOSYSSHR WAS SPECIFIED
! THEN SKIP SEARCH OF IMAGELIB! IF DOING A DEFAULT OBJECT LIBRARY
! THEN WE NEED A DIFFERENT CLUSTER
! SET SEARCH TO KNOWN USER CLUSTER
! IF NO FILES IN THE CLUSTER
! AND IT HAS NO CLUSTER FOLLOWING IT
! AND IT ISN'T THE LAST CLUSTER
! THEN WE MUST LINK INTO CLUSTER LIST! PREVIOUS FILE IS LAST
! ALLOCATE A FILE DESCRIPTOR


```
347      0459      lnk$gl_curfil = .previous_fdb [fdb$l_nxtfdb];  
348      0460      lnk$gl_curclu [clu$l_lstfdb] = .lnk$gl_curfil;  
349      0461      lnk$gl_curfil [fdb$b_filflgs] = .fileflgs;  
350      0462  
351      0463      if .default_lib  
352      0464      then begin  
353      0465          ch$move (dsc$c_s_bln, libnamdescr, lnk$gl_curfil [fdb$w_usrnamlen]);  
354      0466          ch$move (dsc$c_s_bln, libdefext, lnk$gl_curfil [fdb$w_defnamlen]);  
355      0467      end  
356      0468      else begin  
357      0469          ch$move (dsc$c_s_bln, intfiltbl [.nextintfil-1], lnk$gl_curfil [fdb$w_usrnamlen]);  
358      0470          ch$move (dsc$c_s_bln, syslibdefext, lnk$gl_curfil [fdb$w_defnamlen]);  
359      0471      end;  
360      0472  
361      0473      if not .default_lib  
362      0474      then lnk$gl_ctlmsk [lnk$v_intfil] = true;  
363      0475      nextintfil = .nextintfil + 1;  
364      0476      exitloop;  
365      0477      end  
366      0478      else begin  
367      0479          lnk$gl_curclu = .lnk$gl_curclu [clu$l_nxtclu];  
368      0480          if .lnk$gl_curclu eql 0  
369      0481          then begin  
370      0482              lnk$gl_ctlmsk [lnk$v_intfil] = false;  
371      0483              lnk$gl_curfil = 0;  
372      0484              return false;  
373      0485          end;  
374      0486          previous_fdb = lnk$gl_curclu [clu$l_fstfdb];  
375      0487      end;  
376      0488  
377      0489      auxfnb = lnk$gl_curfil [fdb$t_auxfnb];  
378      0490      turn_sqo_off = .lnk$gl_pass eql 2 and .lnk$gl_curfil [fdb$v_omdnobin];  
379      0491  
380      P 0492      $fab_init (fab = input_fab  
381      P 0493          , fac = get  
382      P 0494          , fop = sqo  
383      P 0495          , mrs = obj$c_maxrecsiz  
384      P 0496          , nam = .auxfnb  
385      0497          );  
386      0498  
387      0499      if .turn_sqo_off  
388      0500      then begin  
389      0501          lnk$closefile (.lnk$gl_curfil);  
390      0502          input_fab [fab$v_sqo] = false;  
391      0503      end;  
392      0504  
393      0505      current_ifi = .lnk$gl_curfil [fdb$w_ifi];  
394      0506  
395      0507      if .auxfnb [nam$w_fid_num] eql 0  
396      0508      then begin  
397      0509          input_fab [fab$b_fns] = .lnk$gl_curfil [fdb$w_usrnamlen];  
398      0510          input_fab [fab$l_fna] = .lnk$gl_curfil [fdb$l_usrnamadr];  
399      0511          input_fab [fab$b_dns] = .lnk$gl_curfil [fdb$w_defnamlen];  
400      0512          input_fab [fab$l_dna] = .lnk$gl_curfil [fdb$l_defnamadr];  
401      0513      end  
402      0514      else input_fab [fab$v_nam] = true;  
403      0515
```

! AND MAKE IT CURRENT
! AND SET NEW LAST FDB
! SET APPROPRIATE FLAGS

! IF THIS IS THE DEFAULT USER LIBRARY

! RECORD WE ARE DOING THIS
! REDUCE FILE NUMBER

! IF NOT LAST CLUSTER
! MOVE TO NEXT

! TURN OFF INTERNAL FLAG
! AND RETURN NO MORE FILES
! RESET TO TOP OF FILE LIST

! POINT TO AUXILIARY FILENAME BLOCK

! TIR RECORDS, OPEN WITHOUT SQO...

! FILE APPENDED TO THE LIST OR FILE HAS NEVE
! IT HAS NEVER BEEN OPENED, SO SET
! THE FILE NAME LENGTH AND ADDRESS
! SET DEFAULT NAME STRING SIZE
! AND ADDRESS
! OTHERWISE, CAN'T USE NAME BLOCK OPEN
! OTHERWISE SET OPEN BY FILE ID FLAG

```

404 0516 2 if .lnk$gl_curfil [fdb$sv_libr]
405 0517 3 then begin
406 0518 4     if (open_sts = (if .current_ifi eql 0
407 0519 5         then lnk$openlib (.auxfnb)
408 0520 5         else true
409 0521 4     )
410 0522 4     then begin
411 0523 5         if .lnk$gl_ctlmsk [lnk$sv_intfil]
412 0524 5         and .nextintfil eql 1
413 0525 5         then if not .lnk$gl_curfil [fdb$sv_imglib]
414 0526 5             then begin
415 0527 5                 signal (lnk$notimglib, 1
416 0528 5                     , lnk$gl_curfil [fdb$q_filename]
417 0529 5                     );
418 0530 5                 lnk$closefile (.lnk$gl_curfil);
419 0531 5                 lnk$gl_curfil [fdb$sv_libr] = true;
420 0532 5                 return lnk$nextfil ();
421 0533 5             end;
422 0534 5             lnk$gl_record = 0;
423 0535 5             return true;
424 0536 5         end;
425 0537 5         rms_stv = .lbr$gl_rmsstv;
426 0538 5     end
427 0539 3 else begin
428 0540 4     if .lnk$gl_curfil [fdb$sv_shr]
429 0541 4     then begin
430 0542 5         input_fab [fab$sv_sgo] = false;
431 0543 5         input_fab [fab$sv_bro] = true;
432 0544 5         input_fab [fab$sv_upi] = true;
433 0545 5         input_fab [fab$sv_shrget] = true;
434 0546 5         input_fab [fab$sv_shrput] = true;
435 0547 5     end;
436 0548 3
437 0549 3 if .current_ifi eql 0
438 0550 4 then begin
439 0551 5     $getjpi (itmlst=lnk$gt_jpilst);
440 0552 5     if .lnk$gl_filesleft [eq 3]
441 0553 5     then lnk$closefile ();
442 0554 5
443 0555 5     open_sts = openit ();
444 0556 5     rms_stv = .input_fab [fab$l_stv] ;
445 0557 5     end
446 0558 3 else open_sts = true ;
447 0559 3
448 0560 3 if .open_sts
449 0561 4 then begin
450 0562 5     if .lnk$gl_curfil [fdb$w_ifi] eql 0
451 0563 5     then begin
452 0564 5         lnk$gl_curfil [fdb$w_ifi] = .input_fab [fab$w_ifi];
453 0565 5         ch$move (dsc$c_s_bln, lnk$filnamdsc (input_fab)
454 0566 5             , lnk$gl_curfil [fdb$q_filename]
455 0567 5             );
456 0568 5     end
457 0569 5     else input_fab [fab$w_ifi] = .lnk$gl_curfil [fdb$w_ifi];
458 0570 5
459 0571 5     if .lnk$al_rab [rab$l_ubf] eql 0
460 0572 5     then begin

```

! IF FILE IS A LIBRARY
! THEN OPEN DIFFERENTLY

! IF THIS IS THE INTERNAL SHAREABLE IMAGE ST
! (REMEMBER NEXTINTFIL HAS BEEN DECREMENTED
! BUT DID NOT TURN OUT TO BE SHAREABLE IMAG

! ISSUE THE MESSAGE

! CLOSE THE FILE
! FORCE DESCRIPTOR TO EVAPORATE
! RECURSE TO DISPOSE OF DESCRIPTOR AND RETUR

! INIT RECORD COUNTER

! THERE WAS AN ERROR. SET STV

! IF A SHAREABLE IMAGE FILE SET TO OPEN FOR
! NOT SEQUENTIAL ONLY
! RECORD AND BLOCK OPERATIONS
! SHARED ACCESS
! SET FOR SHARED GETS
! AND PUTS (LINKER DOESN'T, BUT MUST SET SO
! CAN READ IT IN CASE INSTALLED /WRITE)

! THEN CLOSE DOWN A FILE

! AND TRY AGAIN
! PICKUP SECONDARY STATUS

! IF SUCCESSFUL

! SAVE IFI FOR LATER CLOSE
! SAVE THE RESULTANT FILE NAME
! IN CASE OF ERROR LATER

! IF FILE OPEN, USE ITS IFI

! ALLOCATE A USER BUFFER (IF NECESSARY)
! WITH A SIZE WHICH IS


```
461      0573 5      lnk$al_rab [rab$w_usz] = obj$c_maxrecsiz;
462      0574 5      lnk$al_toblk (.lnk$al_rab [rab$w_usz]
463      0575 5          , lnk$al_rab [rab$l_ubf]);
464      0576 4      end;
465      0577 4
466      0578 4      lnk$al_rab [rab$l_fab] = input_fab;
467      0579 4      lnk$al_rab [rab$w_isi] = 0;
468      0580 5      if (open_sts = $connect (rab=lnk$al_rab);
469      0581 5          rms_stv = .lnk$al_rab [rab$l_stv];
470      0582 5          .open_sts
471      0583 5      )
472      0584 5      then begin
473      0585 5          if .lnk$gl_curfil [fdb$v_shr]
474      0586 5      then begin
475      0587 6              input_fab [fab$v_esc] = true;
476      0588 6              input_fab [fab$l_ctx] = rme$c_setrfm;
477      0589 6              input_fab [fab$b_rfm] = fab$c_var;
478      0590 6              if (open_sts = $modify (fab=input_fab);
479      0591 7                  rms_stv = .input_fab [fab$l_stv];
480      0592 7                  .open_sts
481      0593 7              )
482      0594 7              then (lnk$gl_record = 0; return true)
483      0595 7              end
484      0596 6          else (lnk$gl_record = 0; return true);
485      0597 5      end;
486      0598 4      end;
487      0599 3      end;
488      0600 2      end;
489      0601 2
490      0602 2      lnk$closefile (.lnk$gl_curfil);
491      0603 2
492      0604 2      errorcode = lin$_openin;
493      0605 2
494      0606 2      if .lnk$gl_ctlmsk [lnk$v_intfil] or .default_lib
495      0607 2      then errorcode [sts$v_severity] = sts$k_info
496      0608 2      else errorcode [sts$v_severity] = sts$k_severe;
497      0609 2
498      0610 2      signal (.errorcode,1
499      0611 2          ,lnk$filnamdsc (input_fab)
500      0612 2          ,.open_sts, .rms_stv
501      0613 2      );
502      0614 2      if .lnk$gl_curclu [clu$v_intclu]
503      0615 2      then begin
504      0616 3          lnk$gl_curclu [clu$l_shrlst] = 0;
505      0617 3          lnk$gl_curclu [clu$l_adrcnt] = 0;
506      0618 3          lnk$gl_curclu [clu$l_adrleft] = 0;
507      0619 3      end;
508      0620 2
509      0621 2      !
510      0622 2      ! Now, if we bombed out while trying to open an internally materialized
511      0623 2      ! shareable image, we'd better get rid of its cluster descriptor, too
512      0624 2
513      0625 2      if .lnk$gl_ctlmsk [lnk$v_intfil]
514      0626 2      and .lnk$gl_curfil [fdb$v_shr]
515      0627 2      and .lnk$gl_curclu [clu$v_intclu]
516      0628 2      and .lnk$gl_curclu [clu$v_shrimg]
517      0629 3      then begin
```

! MAX ALLOWABLE OBJECT RECORD
! FOR RMS TO USE ON RECORDS THAT
! CROSS BLOCK BOUNDARIES
! AND FOR READING LIBRARY HEADERS

! SET FAB POINTER
! ENSURE IT IS RE-USABLE RAB
! AND ATTEMPT TO CONNECT IT

! AND IF SUCCESSFUL
! FINALLY IF THIS IS A SHAREABLE IMAGE
! TELL RMS WHAT I KNOW ABOUT THE
! THE RECORDS OF THE FILE I.E.
! RMS \$MODIFY FUNCTION WHICH WILL TELL
! RMS THAT THIS IS A VARIABLE
! LENGTH RECORD FILE, EVEN THOUGH THE
! THE RECORDS OF THE FILE ARE FIXED

! AND THAT IS ALL IF IT SUCCEEDS

! IF ANY OF THE ABOVE FAILS
! FILE WAS NOT A LIBRARY

! ATTEMPT CLOSE
! ISSUE MESSAGES
! SET ERROR CODE

! IF AN INTERNAL FILE
! THEN NOT FATAL
! OTHERWISE IT IS

! FIRST THE LINK PASS NUMBER

! IF THIS IS INTERNALLY CREATED CLUSTER
! CLEAR INFO LEFT AROUND FOR CONSISTENCY CHE

! FILE IS INTERNALLY MATERIALIZED
! AND IS SHAREABLE
! CLUSTER IS INTERNALLY MATERIALIZED
! AND IS SHRIMP CLUSTER

```

: 518      0630      3      bind  nxtclu = lnk$gl_curclu [clu$l_nxtclu] : ref block [,byte],
: 519      0631      3      prevclu = lnk$gl_curclu [clu$l_prevclu] : ref block [,byte];
: 520      0632      3
: 521      0633      3      if .prevclu neq 0
: 522      0634      3      then prevclu [clu$l_nxtclu] = .nxtclu;
: 523      0635      3
: 524      0636      3      if .nxtclu neq 0
: 525      0637      3      then nxtclu [clu$l_prevclu] = .prevclu;
: 526      0638      3      end;
: 527      0639      3
: 528      0640      3      lnk$gl_curfil [fdb$v_libr] = true;
: 529      0641      3
: 530      0642      3      return lnk$nextfil ();
: 531      0643      3
: 532      0644      1 end;

```

! IF NOT FIRST CLUSTER,
! THEN SET PREVIOUS CLUSTER'S
! FWD PTR TO THE NEXT CLUSTER
! IF NOT LAST CLUSTER,
! THEN SET THE NEXT CLUSTER'S
! BACK PTR TO PREVIOUS CLUSTER

! UNCONDITIONALLY MAKE IT A LIBRARY SO THAT
! IT'S DESCRIPTOR WILL BE EVAPORATED
! RECURSING TO DISPOSE OF ITS DESCRIPTOR

! OF LNK\$NXTFIL ROUTINE

		\$RMS_PTR=		INPUT FAB		
		.EXTRN		SYSS\$DISCONNECT, SYSS\$GETJPI		
		.EXTRN		SYSS\$CONNECT, SYSS\$MODIFY		
		OFFC 00000		.ENTRY		
		5B 00000000G	00 9E 00002	MOVAB	LNK\$GL_CTLMSK, R11	
		5A 0000'	CF 9E 00009	MOVAB	LNK\$GL_CURFIL, R10	
		59 0000'	CF 9E 0000E	MOVAB	NEXTINTFIL, R9	
		50	6A D0 00013	MOVL	LNK\$GL_CURFIL, R0	0372
			16 12 00016	BNEQ	1\$	
		00000000G	00 D0 00018	MOVL	LNK\$GL_CLULST, LNK\$GL_CURCLU	0374
F8	A9	00000000G	00	ADDL3	#8, LNK\$GL_CURCLU, PREVIOUS_FDB	0375
			65 11 0002C	BRB	7\$	0372
		09 0B	A0 E8 0002E	BLBS	11(R0), 2\$	0378
		02 00000000G	00 91 00032	CMPB	LNK\$GB_PASS, #2	0379
			07 12 00039	BNEQ	3\$	
			50 DD 0003B	PUSHL	R0	0380
	0000V	CF	01 FB 0003D	CALLS	#1, LNK\$CLOSEFILE	
		01 00000000G	00 91 00042	CMPB	LNK\$GB_PASS, #1	0382
			07 12 00049	BNEQ	4\$	
		50	6A D0 0004B	MOVL	LNK\$GL_CURFIL, R0	0383
	0B	A0	02 88 0004E	BISB2	#2, 11(R0)	
		50	6A D0 00052	MOVL	LNK\$GL_CURFIL, R0	0385
23	0A	A0	01 E1 00055	BBC	#1, 10(R0), 5\$	
		04	A0 D5 0005A	TSTL	4(R0)	0386
			1E 12 0005D	BNEQ	5\$	
			50 DD 0005F	PUSHL	R0	0388
	0000V	CF	01 FB 00061	CALLS	#1, LNK\$CLOSEFILE	
		51 F8	A9 D0 00066	MOVL	PREVIOUS_FDB, R1	0389
		61 00	BA D0 0006A	MOVL	@LNK\$GL_CURFIL, (R1)	
			11 12 0006E	BNEQ	6\$	0391
		50 00000000G	00 D0 00070	MOVL	LNK\$GL_CURCLU, R0	0392
	0C	A0	51 D0 00077	MOVL	R1, 12(R0)	
			04 11 0007B	BRB	6\$	0385
	F8	A9	50 D0 0007D	MOVL	R0, PREVIOUS_FDB	0398
		50	6A D0 00081	MOVL	LNK\$GL_CURFIL, R0	0400
		24	A0 B5 00084	TSTW	36(R0)	
			0A 13 00087	BEQL	7\$	

			B8	AA	9F	00089	PUSHAB	LNK\$AL_RAB	0401	
	00000000G	00		01	FB	0008C	CALLS	#1, SYSSDISCONNECT		
		6A	F8	B9	D0	00093	7\$:	MOV L	APREVIOUS_FDB, LNK\$GL_CURFIL	0404
				14	13	00097		BEQ L	10\$	
03		50		6A	D0	00099		MOV L	LNK\$GL_CURFIL, R0	0405
	0B	A0		01	E0	0009C		BBS	#1, 11(R0), 9\$	
			0150	31	000A1	8\$:	BRW	27\$		
		01	00000000G	00	91	000A4	9\$:	CMPB	LNK\$GB_PASS, #1	
				F4	12	000AB		BNEQ	8\$	
		50	00000000G	00	D0	000AD	10\$:	MOV L	LNK\$GL_CURCLU, R0	0406
				60	D5	000B4		TSTL	(R0)	
				28	12	000B6		BNEQ	12\$	
		01	00000000G	00	91	000B8		CMPB	LNK\$GB_PASS, #1	0407
				1F	12	000BF		BNEQ	12\$	
				69	95	000C1		TSTB	NEXTINTFIL	
				1B	13	000C3		BEQ L	12\$	
			00000000G	00	B5	000C5		TSTW	LNK\$GW_NUDFSYMS	0409
				13	13	000CB		BEQ L	12\$	
		03		69	91	000CD		CMPB	NEXTINTFIL, #3	0410
				05	12	000D0		BNEQ	11\$	
0C		02	AB	06	E0	000D2		BBS	#6, LNK\$GL_CTLMSK+2, 13\$	
				69	95	000D7	11\$:	TSTB	NEXTINTFIL	0412
				05	13	000D9		BEQ L	12\$	
03		01	AB	02	E0	000DB		BBS	#2, LNK\$GL_CTLMSK+1, 13\$	
				00F0	31	000E0	12\$:	BRW	24\$	
		52	82	8F	9A	000E3	13\$:	MOVZBL	#130, FILEFLAGS	0417
		04	08	A9	E8	000E7		BLBS	FIRST TIME, 14\$	0418
		2D	09	A9	E9	000EB		BLBC	DEFAULT LIB, 17\$	0419
			08	A9	94	000EF	14\$:	CLRB	FIRST TIME	0421
08		02	AB	06	E1	000F2		BBC	#6, LNK\$GL_CTLMSK+2, 15\$	0422
	0000V	CF		00	FB	000F7		CALLS	#0, TRAN_NEXT_LIB	0423
		13		50	E8	000FC		BLBS	R0, 16\$	
		69		02	90	000FF	15\$:	MOVB	#2, NEXTINTFIL	0425
			09	A9	94	00102		CLRB	DEFAULT LIB	0426
			40	8F	8A	00105		BICB2	#64, LNK\$GL_CTLMSK+2	0427
0D		02	AB	02	E0	0010A		BBS	#2, LNK\$GL_CTLMSK+1, 17\$	0428
		01	AB	00D5	31	0010F		BRW	25\$	0430
		09	A9	01	90	00112	16\$:	MOVB	#1, DEFAULT_LIB	0435
			04	A9	D6	00116		INCL	USERLIBNO	0436
		69		03	90	00119		MOVB	#3, NEXTINTFIL	0437
		02		69	91	0011C	17\$:	CMPB	NEXTINTFIL, #2	0441
				08	12	0011F		BNEQ	18\$	
03		02	AB	04	E0	00121		BBS	#4, LNK\$GL_CTLMSK+2, 18\$	0442
		69		01	90	00126		MOVB	#1, NEXTINTFIL	0443
		05	09	A9	E8	00129	18\$:	BLBS	DEFAULT LIB, 19\$	0445
		01		69	91	0012D		CMPB	NEXTINTFIL, #1	
				44	12	00130		BNEQ	20\$	
	00000000G	00	00000000G	00	9E	00132	19\$:	MOVAB	LNK\$GL_DEFCLU, LNK\$GL_CURCLU	0447
			00000000G	00	D5	0013D		TSTL	LNK\$GL_DEFCLU+8	0448
				31	12	00143		BNEQ	20\$	
			00000000G	00	D5	00145		TSTL	LNK\$GL_DEFCLU	0449
				29	12	0014B		BNEQ	20\$	
		50	00000000G	00	9E	0014D		MOVAB	LNK\$GL_DEFCLU, R0	0450
		50	00000000G	00	D1	00154		CMPL	LNK\$GL_LASTCLU, R0	
				19	13	0015B		BEQ L	20\$	
		50	00000000G	00	D0	0015D		MOVL	LNK\$GL_LASTCLU, R0	0452
		60	00000000G	00	9E	00164		MOVAB	LNK\$GL_DEFCLU, (R0)	

00000000G	00	00000000G	00	9E	0016B	MOVAB	LNK\$GL_DEFCLU, LNK\$GL_LASTCLU	0453		
	50	00000000G	00	D0	00176	20\$:	MOVL	LNK\$GL_CURCLU, R0	0457	
F8	A9	OC	A0	D0	0017D		MOVL	12(R0), PREVIOUS_FDB		
		F8	A9	DD	00182		PUSHL	PREVIOUS_FDB	0458	
00000000G	00		01	FB	00185		CALLS	#1, LNK\$ALLOFDB		
	6A	F8	B9	D0	0018C		MOVL	@PREVIOUS_FDB, LNK\$GL_CURFIL	0459	
	50	00000000G	00	D0	00190		MOVL	LNK\$GL_CURCLU, R0	0460	
	56		6A	D0	00197		MOVL	LNK\$GL_CURFIL, R6		
OC	A0		56	D0	0019A		MOVL	R6, 12(R0)		
OA	A6		52	90	0019E		MOVB	FILEFLAGS, 10(R6)	0461	
	OF	09	A9	E9	001A2		BLBC	DEFAULT_LIB, 21\$	0463	
OC	A6	0110	C9	08	001A6		MOVC3	#8, LIBNAMEDESCR, 12(R6)	0465	
14	A6	E0	A9	08	001AD		MOVC3	#8, LIBDEFEXT, 20(R6)	0466	
				12	001B3		BRB	22\$	0463	
			50	69	001B5	21\$:	MOVZBL	NEXTINTFIL, R0	0469	
			B8	A940	7F	001B8	PUSHAQ	INTFILTBLE-8(R0)		
OC	A6		9E	08	001BC		MOVC3	#8, @SP)+, 12(R6)		
14	A6	D0	A9	08	001C1		MOVC3	#8, SYSLIBDEFEXT, 20(R6)	0470	
			04	09	001C7	22\$:	BLBS	DEFAULT_LIB, 23\$	0473	
		01	AB	08	001CB		BISB2	#8, LNK\$GL_CTLMSK+1	0474	
				69	001CF	23\$:	DECB	NEXTINTFIL	0475	
				21	001D1		BRB	27\$	0414	
00000000G	00		60	D0	001D3	24\$:	MOVL	(R0), LNK\$GL_CURCLU	0479	
	50	00000000G	00	D0	001DA		MOVL	LNK\$GL_CURCLO, R0	0480	
			09	12	001E1		BNEQ	26\$		
	01	AB	08	8A	001E3		BICB2	#8, LNK\$GL_CTLMSK+1	0482	
			6A	D4	001E7	25\$:	CLRL	LNK\$GL_CURFIL	0483	
			0242	31	001E9		BRW	54\$	0484	
	F8	A9	08	A0	001EC	26\$:	MOVAB	8(R0), PREVIOUS_FDB	0486	
				FE9F	31	001F1	BRW	7\$	0406	
	57			6A	D0	001F4	27\$:	MOVL	LNK\$GL_CURFIL, R7	0489
	56	26		A7	9E	001F7	MOVAB	38(R7), AUXFNB		
				50	D4	001FB	CLRL	R0	0490	
	02	00000000G	00	91	001FD		CMPB	LNK\$GB_PASS, #2		
			02	12	00204		BNEQ	28\$		
			50	D6	00206		INCL	R0		
51	OB	A7	01	02	EF	00208	28\$:	EXTZV	#2, #1, 11(R7), R1	
			51	51	D2	0020E	MCOML	R1, R1		
			50	51	8B	00211	BICB3	R1, R0, TURN_SQO OFF		
0050	8F	00	6E	00	2C	00215	MOVC5	#0, (SP), #0, #80, \$RMS_PTR	0497	
				C9		0021C				
	FF70	C9	FF70	8F	B0	0021F	MOVW	#20483, \$RMS_PTR		
	FF74	C9	5003	8F	9A	00226	MOVZBL	#64, \$RMS_PTR+4		
	86	A9	40	02	90	0022C	MOVB	#2, \$RMS_PTR+22		
	8F	A9		02	90	00230	MOVB	#2, \$RMS_PTR+31		
	98	A9		56	D0	00234	MOVL	AUXFNB, \$RMS_PTR+40		
	A6	A9	0800	8F	B0	00238	MOVW	#2048, \$RMS_PTR+54		
		OD		58	E9	0023E	BLBC	TURN_SQO_OFF, 29\$	0499	
				57	DD	00241	PUSHL	R7	0501	
	0000V	CF		01	FB	00243	CALLS	#1, LNK\$CLOSEFILE		
	FF74	C9	40	8F	8A	00248	BICB2	#64, INPUT_FAB+4	0502	
		50		6A	D0	0024E	29\$:	MOVL	LNK\$GL_CURFIL, R0	0505
		52	24	A0	3C	00251	MOVZWL	36(R0), CURRENT_IF1		
			24	A6	B5	00255	TSTW	36(AUXFNB)	0507	
				16	12	00258	BNEQ	30\$		
	A4	A9	OC	A0	90	0025A	MOVB	12(R0), INPUT_FAB+52	0509	
	9C	A9	10	A0	D0	0025F	MOVL	16(R0), INPUT_FAB+44	0510	

	A5	A9	14	A0	90	00264	MOVB	20(R0), INPUT_FAB+53	: 0511
	A0	A9	18	A0	D0	00269	MOVL	24(R0), INPUT_FAB+48	: 0512
				05	11	0026E	BRB	31\$	: 0507
50	FF77	C9		01	88	00270	BISB2	#1, INPUT_FAB+7	: 0514
	0A	A0		01	E1	00275	BBC	#1, 10(R0), 38\$	: 0516
				52	D5	0027A	TSTL	CURRENT_IFI	: 0518
				0C	12	0027C	BNEQ	32\$	: 0519
	0000V	CF		56	DD	0027E	PUSHL	AUXFNB	: 0519
		56		01	FB	00280	CALLS	#1, LNK\$OPENLIB	: 0518
		30		50	D0	00285	MOVL	R0, OPEN_STS	: 0518
03	01	AB		03	11	00288	BRB	33\$	: 0518
				01	D0	0028A	MOVL	#1, OPEN_STS	: 0518
				56	E9	0028D	BLBC	OPEN_STS, 36\$	: 0523
				03	E0	00290	BBS	#3, LNK\$GL_CTLMSK+1, 35\$	: 0523
				01	31	00295	BRW	46\$	: 0524
				69	91	00298	CMPB	NEXTINTFIL, #1	: 0524
				F8	12	0029B	BNEQ	34\$	: 0525
				6A	D0	0029D	MOVL	LNK\$GL_CURFIL, R0	: 0525
			0B	A0	E8	002A0	BLBS	11(R0), 34\$	: 0528
			14	A0	9F	002A4	PUSHAB	20(R0)	: 0528
				01	DD	002A7	PUSHL	#1	: 0530
	00000000G	00	00000000G	8F	DD	002A9	PUSHL	#1, LNK\$NOTIMGLIB	: 0530
				03	FB	002AF	CALLS	#3, LIB\$SIGNAL	: 0531
				6A	DD	002B6	PUSHL	LNK\$GL_CURFIL	: 0531
	0000V	CF		01	FB	002B8	CALLS	#1, LNK\$CLOSEFILE	: 0531
				0161	31	002BD	BRW	53\$	: 0537
				00	D0	002C0	MOVL	LBR\$GL_RMSSTV, RMS_STV	: 0516
				00DE	31	002C7	BRW	47\$	: 0540
0C	0A	A0		02	E1	002CA	BBC	#2, 10(R0), 39\$	: 0542
	FF74	C9	40	8F	8A	002CF	BICB2	#64, INPUT_FAB+4	: 0546
	86	A9	4340	8F	A8	002D5	BISW2	#17216, INPUT_FAB+22	: 0549
				52	D5	002DB	TSTL	CURRENT_IFI	: 0551
				32	12	002DD	BNEQ	41\$	: 0551
				7E	7C	002DF	CLRQ	-(SP)	: 0552
				7E	D4	002E1	CLRL	-(SP)	: 0552
				00	9F	002E3	PUSHAB	LNK\$GT_JPILST	: 0552
				7E	7C	002E9	CLRQ	-(SP)	: 0552
				7E	D4	002EB	CLRL	-(SP)	: 0552
	00000000G	00		07	FB	002ED	CALLS	#7, SYS\$GETJPI	: 0552
		03	00000000G	00	D1	002F4	CMPL	LNK\$GL_FILESLEFT, #3	: 0552
				05	14	002FB	BGTR	40\$	: 0553
	0000V	CF		00	FB	002FD	CALLS	#0, LNK\$CLOSEFILE	: 0555
	FCB9	CF		00	FB	00302	CALLS	#0, OPENIT	: 0555
		56		50	D0	00307	MOVL	R0, OPEN_STS	: 0556
		57	FF7C	C9	D0	0030A	MOVL	INPUT_FAB+12, RMS_STV	: 0549
				03	11	0030F	BRB	42\$	: 0558
				01	D0	00311	MOVL	#1, OPEN_STS	: 0560
				56	E9	00314	BLBC	OPEN_STS, 37\$	: 0562
				6A	D0	00317	MOVL	LNK\$GL_CURFIL, R0	: 0562
				1B	B5	0031A	TSTW	36(R0)	: 0564
	24	A0	FF72	C9	B0	0031F	BNEQ	43\$	: 0564
			FF70	C9	9F	00325	MOVW	INPUT_FAB+2, 36(R0)	: 0565
				01	FB	00329	PUSHAB	INPUT_FAB	: 0566
	00000000G	00		6A	D0	00330	CALLS	#1, LNK\$FILNAMDSC	: 0566
14	A1	51		08	28	00333	MOVL	LNK\$GL_CURFIL, R1	: 0566
		60		06	11	00338	MOVC3	#8, (R0), 20(R1)	: 0562
							BRB	44\$	: 0562

	FF72	C9	24	A0	B0	0033A	43\$:	MOVW	36(R0), INPUT_FAB+2	0569
			DC	AA	D5	00340	44\$:	TSTL	LNK\$AL_RAB+36	0571
				14	12	00343		BNEQ	45\$	
	DB	AA	0800	8F	B0	00345		MOVW	#2048, LNK\$AL_RAB+32	0573
			DC	AA	9F	0034B		PUSHAB	LNK\$AL_RAB+36	0575
		7E	DB	AA	3C	0034E		MOVZWL	LNK\$AL_RAB+32, -(SP)	0574
	00000000G	00		02	FB	00352		CALLS	#2, LNK\$ALLOBLK	
	F4	AA	FF70	C9	9E	00359	45\$:	MOVAB	INPUT_FAB, LNK\$AL_RAB+60	0578
			BA	AA	B4	0035F		CLRW	LNK\$AL_RAB+2	0579
			B8	AA	9F	00362		PUSHAB	LNK\$AL_RAB	0580
	00000000G	00		01	FB	00365		CALLS	#1, SYSS\$CONNECT	
		56		50	D0	0036C		MOVL	R0, OPEN_STS	
		57	C4	AA	D0	0036F		MOVL	LNK\$AL_RAB+12, RMS_STV	0581
		32		56	E9	00373		BLBC	OPEN_STS, 47\$	0582
		50		6A	D0	00376		MOVL	LNK\$GL_CURFIL, R0	0585
23	0A	A0		02	E1	00379		BBC	#2, 10(R0), 46\$	
	FF77	C9		08	88	0037E		BISB2	#8, INPUT_FAB+7	0588
	88	A9		01	D0	00383		MOVL	#1, INPUT_FAB+24	0589
	8F	A9		02	90	00387		MOVB	#2, INPUT_FAB+31	0590
			FF70	C9	9F	0038B		PUSHAB	INPUT_FAB	0591
	00000000G	00		01	FB	0038F		CALLS	#1, SYSS\$MODIFY	
		56		50	D0	00396		MOVL	R0, OPEN_STS	
		57	FF7C	C9	D0	00399		MOVL	INPUT_FAB+12, RMS_STV	0592
		07		56	E9	0039E		BLBC	OPEN_STS, 47\$	0593
			B4	AA	D4	003A1	46\$:	CLRL	LNK\$GL_RECORD	0597
		50		01	D0	003A4		MOVL	#1, R0	
					04	003A7		RET		
	0000V	CF		6A	DD	003A8	47\$:	PUSHL	LNK\$GL_CURFIL	0602
		52	00000000G	01	FB	003AA		CALLS	#1, LNK\$CLOSEFILE	
04	01	AB		8F	D0	003AF		MOVL	#1, LNK\$OPENIN, ERRORCODE	0604
		07	09	03	E0	003B6		BBS	#3, LNK\$GL_CTLMSK+1, 48\$	0606
52	03	00		A9	E9	003BB		BLBC	DEFAULT_LIB, 49\$	
				03	F0	003BF	48\$:	INSV	#3, #0, #3, ERRORCODE	0607
				05	11	003C4		BRB	50\$	
52	03	00		04	F0	003C6	49\$:	INSV	#4, #0, #3, ERRORCODE	0608
		7E		56	7D	003CB	50\$:	MOVQ	OPEN_STS, -(SP)	0612
			FF70	C9	9F	003CE		PUSHAB	INPUT_FAB	0611
	00000000G	00		01	FB	003D2		CALLS	#1, LNK\$FILNAMDSC	
				50	DD	003D9		PUSHL	R0	
				01	DD	003DB		PUSHL	#1	0610
				52	DD	003DD		PUSHL	ERRORCODE	
	00000000G	00	00000000G	05	FB	003DF		CALLS	#5, LIB\$SIGNAL	
06	59	A0		00	D0	003E6		MOVL	LNK\$GL_CURCLU, R0	0614
			30	01	E1	003ED		BBC	#1, 89(R0), 51\$	
			38	A0	7C	003F2		CLRQ	48(R0)	0616
				A0	D4	003F5		CLRL	56(R0)	0618
24	01	AB		03	E1	003F8	51\$:	BBC	#3, LNK\$GL_CTLMSK+1, 53\$	0625
		51		6A	D0	003FD		MOVL	LNK\$GL_CURFIL, R1	0626
1C	0A	A1		02	E1	00400		BBC	#2, 10(R1), 53\$	
17	59	A0		01	E1	00405		BBC	#1, 89(R0), 53\$	0627
12	58	A0		02	E1	0040A		BBC	#2, 88(R0), 53\$	0628
		51	04	A0	D0	0040F		MOVL	4(R0), R1	0633
				03	13	00413		BEQL	52\$	
		61		60	D0	00415		MOVL	(R0), (R1)	0634
		50		60	D0	00418	52\$:	MOVL	(R0), R0	0636
				04	13	0041B		BEQL	53\$	
	04	A0		51	D0	0041D		MOVL	R1, 4(R0)	0637

6 10
16-Sep-1984 00:10:55 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:40:32 [LINKER.SRC]LNKOBJFIL.B32;1

LN
VO

```
; Routine Size: 1073 bytes,    Routine Base: $CODE$ + 0040
```

```

534 0645 1 global routine lnk$nextrec (recdesc) =
535 0646 1
536 0647 1 READ NEXT RECORD FROM CURRENTLY OPEN FILE.
537 0648 1 THIS ROUTINE ACQUIRES RECORDS SEQUENTIALLY
538 0649 1 UNTIL END OF FILE IS DETECTED, IN WHICH
539 0650 1 CASE IT HAS THE VALUE FALSE. SUCCESSFUL READS RETURN
540 0651 1 THE ADDRESS AND LENGTH OF NEXT RECORD AND THE ROUTINE
541 0652 1 HAS THE VALUE TRUE
542 0653 1
543 0654 2 begin
544 0655 2 map
545 0656 2 recdesc : ref block [,byte];
546 0657 2 local
547 0658 2 stvcode,
548 0659 2 readerror,
549 0660 2 bufdesc : block [dsc$sc_s_bln, byte];
550 0661 2
551 0662 2 bind auxfnb = lnk$gl_curfil [fdb$st_auxfnb]
552 0663 2 : block [nam$sc_bln, byte];
553 0664 2
554 0665 2 if .lnk$gl_curfil [fdb$st_libr]
555 0666 2 then begin
556 0667 2 bufdesc [dsc$w_length] = .lnk$al_rab [rab$w_usz];
557 0668 2 bufdesc [dsc$a_pointer] = .lnk$al_rab [rab$l_ubf];
558 0669 2
559 0670 2 readerror = lbr$get_record ( %ref(.lnk$gl_curfil [fdb$w_ifi]), bufdesc, bufdesc); ! READ A RECORD
560 0671 2
561 0672 2 lnk$al_rab [rab$l_stv] = .lbr$gl_rmsstv;
562 0673 2 lnk$al_rab [rab$w_rsz] = .bufdesc [dsc$w_length];
563 0674 2 lnk$al_rab [rab$l_rbf] = .bufdesc [dsc$a_pointer];
564 0675 2 end
565 0676 2 else readerror = $get (rab=lnk$al_rab);
566 0677 2
567 0678 2 if not .readerror
568 0679 2 then if .readerror neq rms$eof
569 0680 2 then begin
570 0681 2 stvcode = .lnk$al_rab [rab$l_stv];
571 0682 2 lnk$closefile (.lnk$gl_curfil);
572 0683 2 signal (lin$readerr, 1
573 0684 2 , lnk$gl_curfil [fdb$q_filename]
574 0685 2 , .readerror, .stvcode
575 0686 2 );
576 0687 2 return false;
577 0688 2 end
578 0689 2 else return false;
579 0690 2
580 0691 2 lnk$gl_objrecs = .lnk$gl_objrecs + 1;
581 0692 2 lnk$gl_record = .lnk$gl_record + 1;
582 0693 2
583 0694 2 recdesc [dsc$w_length] = .lnk$al_rab [rab$w_rsz];
584 0695 2 recdesc [dsc$a_pointer] = .lnk$al_rab [rab$l_rbf];
585 0696 2
586 0697 2 return true
587 0698 1 end;
```

! READ ERROR CODE
! DESCRIPTOR FOR BUFFER
! REFERENCE THE AUX. FILE NAME BLOCK PART
! IF READING A LIBRARY FILE
! SET UP DESCRIPTOR FOR BUFFER
! SET INFO INTO RAB
!...
! NOT LIBRARY, JUST DO A GET
! IF THERE WAS AN ERROR OTHER THAN
! AND IF AN ERROR OTHER THAN
! END OF FILE
! SAVE STV OVER CLOSE
! ATTEMPT TO CLOSE IT
! ISSUE READ ERROR MESSAGE
! ALL DONE IF END OF FILE
!
! RETURN LENGTH AND ADDRESS OF THIS
! SUCCESSFULLY OBTAINED RECORD
!
! AND ALL IS DONE
! OF LNK\$NEXTREC ROUTINE

				.EXTRN	SYSSGET	
			001C 00000	.ENTRY	LNK\$NXTREC, Save R2,R3,R4	0645
	54	0000'	CF 9E 00002	MOVAB	LNK\$GL_CURFIL, R4	
	5E		0C C2 00007	SUBL2	#12, SP	
36	50		64 D0 0000A	MOVL	LNK\$GL_CURFIL, R0	0662
	0A		01 E1 0000D	BBC	#1, 10(R0), 1\$	0665
	04	D8	A4 B0 00012	MOVW	LNK\$AL_RAB+32, BUFDESC	0667
	08	DC	A4 D0 00017	MOVL	LNK\$AL_RAB+36, BUFDESC+4	0668
		04	AE 9F 0001C	PUSHAB	BUFDESC	0670
		08	AE 9F 0001F	PUSHAB	BUFDESC	
	08	AE	A0 3C 00022	MOVZWL	36(R0), 8(SP)	
		24	AE 9F 00027	PUSHAB	8(SP)	
		08	03 FB 0002A	CALLS	#3, LBR\$GET_RECORD	
00000000G	00		50 D0 00031	MOVL	R0, READERROR	
	53		00 D0 00034	MOVL	LBR\$GL_RMSSTV, LNK\$AL_RAB+12	0672
	C4	00000000G	00 D0 0003C	MOVW	BUFDESC, LNK\$AL_RAB+34	0673
	DA		04 AE D0 00041	MOVL	BUFDESC+4, LNK\$AL_RAB+40	0674
	E0		08 0D 11 00046	BRB	2\$	0665
		BB	A4 9F 00048	PUSHAB	LNK\$AL_RAB	0676
00000000G	00		01 FB 0004B	CALLS	#1, SYSSGET	
	53		50 D0 00052	MOVL	R0, READERROR	
	2D		53 E8 00055	BLBS	READERROR, 3\$	0678
0001827A	8F		53 D1 00058	CMPL	READERROR, #98938	0679
			3B 13 0005F	BEQL	4\$	
	52	C4	A4 D0 00061	MOVL	LNK\$AL_RAB+12, STVCODE	0681
			64 DD 00065	PUSHL	LNK\$GL_CURFIL	0682
0000V	CF		01 FB 00067	CALLS	#1, LNR\$CLOSEFILE	
			52 DD 0006C	PUSHL	STVCODE	0685
			53 DD 0006E	PUSHL	READERROR	
7E	64		14 C1 00070	ADDL3	#20, LNK\$GL_CURFIL, -(SP)	0684
			01 DD 00074	PUSHL	#1	
		00000000G	8F DD 00076	PUSHL	#LINS_READERR	
00000000G	00		05 FB 0007C	CALLS	#5, LIB\$SIGNAL	
			17 11 00083	BRB	4\$	0689
		B0	A4 D6 00085	INCL	LNK\$GL_OBJRECS	0691
		B4	A4 D6 00088	INCL	LNK\$GL_RECORD	0692
	50	04	AC D0 0008B	MOVL	RECDESC, R0	0694
	60	DA	A4 B0 0008F	MOVW	LNK\$AL_RAB+34, (R0)	
04	A0	E0	A4 D0 00093	MOVL	LNK\$AL_RAB+40, 4(R0)	0695
	50		01 D0 00098	MOVL	#1, R0	0697
			04 0009B	RET		
			50 D4 0009C	CLRL	R0	0698
			04 0009E	RET		

; Routine Size: 159 bytes, Routine Base: \$CODE\$ + 0471

```
0699 1 global routine lnk$pointobj(modrfa) : novalue =
0700 2 begin
0701 3
0702 4 ++
0703 5
0704 6 THIS ROUTINE IS CALLED DURING LIBRARY OR SHAREABLE IMAGE FILE READING TO POINT TO
0705 7 THE REQUIRED PARTITION IN THE FILE GIVEN BY ITS RFA.
0706 8 FOR A LIBRARY THE NEXT GET WILL READ THE LIBRARY MODULE'S HEADER RECORD.
0707 9 FOR A SHAREABLE IMAGE FILE MERELY DO A FIND BY RFA SO THAT NO RECORD IS
0708 10 SKIPPED. I.E. NEXT GET GETS RECORD POINTED TO.
0709 11
0710 12 map
0711 13     modrfa          : ref block [,byte];          ! POINTER TO RFA BLOCK
0712 14 local
0713 15     status,
0714 16     hdrdesc        : block [dsc$c_s_bln,byte],    ! STRING DESCRIPTOR FOR MODULE HEADER
0715 17     libmodhdr       : ref block [,byte],          ! POINTER TO LIBRARY MODULE HEADER
0716 18     reclng;        ! LENGTH OF RECORD
0717 19
0718 20 bind auxfnb = lnk$gl_curfil [fdb$t_auxfnb]        ! REFERENCE THE AUXILIARY FILE NAME BLOCK PA
0719 21             : block[nam$c_bln,byte];
0720 22
0721 23 if .lnk$gl_curfil [fdb$v_libr]                    ! IF THIS IS A LIBRARY FILE
0722 24 then begin
0723 25     local
0724 26         modnamdesc : block[dsc$c_s_bln,byte],
0725 27         header      : block[lbr$c_maxhdrsiz,byte];
0726 28
0727 29 if .lnk$gb_pass eql 1                             ! ONLY READ HEADER ON PASS 1
0728 30 then begin
0729 31     hdrdesc [dsc$w_length] = lbr$c_maxhdrsiz;    ! SET UP DESCRIPTOR FOR HEADER BUFFER
0730 32     hdrdesc [dsc$a_pointer] = header;
0731 33     if not (status = lbr$set_module (%ref (.lnk$gl_curfil [fdb$w_ifi]), .modrfa, hdrdesc))
0732 34     then begin
0733 35         lnk$al_rab [rab$l_sts] = .status;        ! ERROR - SET CODES INTO RAB
0734 36         lnk$al_rab [rab$l_stv] = .lbr$gl_rmsstv;
0735 37     end
0736 38     else begin
0737 39         if .header [mhd$v_selsrc]                 ! IF MODULE IS SELECTIVELY SEARCHED
0738 40         then lnk$gl_curfil [fdb$v_selser] = true
0739 41         else lnk$gl_curfil [fdb$v_selser] = false;
0740 42         return true;
0741 43     end;
0742 44
0743 45 else begin
0744 46     status = lbr$find (%ref (.lnk$gl_curfil [fdb$w_ifi]), .modrfa); ! PASS 2 -- NEED TO FIND MODULE
0745 47     if .status then return true; ! POSITION TO READ MODULE
0746 48                                     ! ALL DONE IF SUCCESSFUL
0747 49
0748 50     modnamdesc [dsc$w_length] = .lnk$gl_curomd [omd$b_namlng]; ! IT APPEARS TO HAVE DISAPPEARED.
0749 51     modnamdesc [dsc$a_pointer] = lnk$gl_curomd [omd$t_name]; ! TRY A LOOKUP IN CASE IT WAS MEREL
0750 52     status = lbr$lookup_key (%ref (.lnk$gl_curfil [fdb$w_ifi]), modnamdesc, .modrfa);
0751 53     if .status then return true;
0752 54
0753 55     lnk$al_rab [rab$l_sts] = .status;            ! ERROR--SET CODES IN RAB
0754 56     lnk$al_rab [rab$l_stv] = .lbr$gl_rmsstv;
0755 57 end;
0756 58 end
0757 59 else begin
0758 60
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```

: 646      0756      3      lnk$al_rab [rab$b_rac] = rab$c_rfa;
: 647      0757      3      lnk$al_rab [rab$l_rfa0] = .modrfa [rfa$l_vbn];
: 648      0758      3      lnk$al_rab [rab$w_rfa4] = .modrfa [rfa$w_offset];
: 649      0759      3      status = $find (rab=lnk$al_rab);
: 650      0760      3      lnk$al_rab [rab$b_rac] = rab$c_seq;
: 651      0761      3      if .status then return true;
: 652      0762      3      end;
: 653      0763      3
: 654      0764      3      signal (lin$ libfind, 4, .modrfa [rfa$l_vbn]
: 655      0765      3      , .modrfa [rfa$w_offset], lnk$gl_curomd [omd$b_namlng]
: 656      0766      3      , lnk$gl_curfil [fdb$b_filename], lin$ _format, 0
: 657      0767      3      , status, .lnk$al_rab [rab$l_stv]
: 658      0768      3
: 659      0769      3      return;
: 660      0770      1      end;

```

! SET TO ACCESS BY RFA
! SET UP RFA
! PERFORM THE FIND
! RESET TO SEQUENTIAL ACCESS
! ALL DONE IF GOOD FIND
! REPORT ERROR IF FALL THROUGH
! AND ALL SET

				.EXTRN	SYSS\$FIND	
				.ENTRY	LNK\$POINTOBJ, Save R2,R3	0699
				MOVAB	LNK\$GL_CURFIL, R3	
				MOVAB	-148(SP), SP	
				MOVL	LNK\$GL_CURFIL, R1	0718
				MOVL	MODRFA, R2	0730
				BBS	#1, 10(R1), 1\$	0721
				BRW	5\$	
				CMPB	LNK\$GB_PASS, #1	0726
				BNEQ	3\$	
				MOVZBW	#128, HDRDESC	0728
				MOVAB	HEADER, HDRDESC+4	0729
				PUSHAB	HDRDESC	0730
				PUSHL	R2	
				MOVZWL	36(R1), 8(SP)	
				PUSHAB	8(SP)	
				CALLS	#3, LBR\$SET_MODULE	
				BLBC	STATUS, 4\$	
				MOVL	LNK\$GL_CURFIL, R1	0737
				BLBC	HEADER+16, 2\$	0736
				BISB2	#8, 10(R1)	0737
				RET		
				BICB2	#8, 10(R1)	0738
				RET		0739
				PUSHL	R2	0743
				MOVZWL	36(R1), 4(SP)	
				PUSHAB	4(SP)	
				CALLS	#2, LBR\$FIND	
				BLBS	STATUS, 7\$	0744
				MOVL	LNK\$GL_CUROMD, R1	0746
				MOVZBW	40(R1), MODNAMDESC	
				MOVAB	41(R1), MODNAMDESC+4	0747
				PUSHL	R2	0748
				PUSHAB	MODNAMDESC	
				MOVL	LNK\$GL_CURFIL, R1	
				MOVZWL	36(R1), 8(SP)	
				PUSHAB	8(SP)	
				CALLS	#3, LBR\$LOOKUP_KEY	

				000C	00000	
	53	0000'	CF	9E	00002	
	5E	FF6C	CE	9E	00007	
	51		63	D0	0000C	
03	52	04	AC	D0	0000F	
	A1		01	E0	00013	
			0085	31	00018	
	01	00000000G	00	91	0001B	1\$:
			32	12	00022	
	F8	AD	80	8F	9B	00024
	FC	AD	04	AE	9E	00029
			F8	AD	9F	0002E
			52	DD	00031	
	08	AE	24	A1	3C	00033
			08	AE	9F	00038
00000000G	00		03	FB	0003B	
	4D		50	E9	00042	
	51		63	D0	00045	
	05	14	AE	E9	00048	
	0A	A1	08	88	0004C	
			04	00050		
	0A	A1	08	8A	00051	2\$:
			04	00055		
			52	DD	00056	3\$:
	04	AE	24	A1	3C	00058
			04	AE	9F	0005D
00000000G	00		02	FB	00060	
	7E		50	E8	00067	
	51	FC	A3	D0	0006A	
	F0	AD	28	A1	9B	0006E
	F4	AD	29	A1	9E	00073
			52	DD	00078	
			F0	AD	9F	0007A
	51		63	D0	0007D	
	08	AE	24	A1	3C	00080
			08	AE	9F	00085
00000000G	00		03	FB	00088	

		56		50	E8	0008F		BLBS	STATUS, 7\$	:	0749
C0	A3			50	D0	00092	4\$:	MOVL	STATUS, LNK\$AL_RAB+8	:	0751
C4	A3	00000000G		00	D0	00096		MOVL	LBR\$GL_RMSSTV, LNK\$AL_RAB+12	:	0752
				1D	11	0009E		BRB	6\$	:	0721
D6	A3			02	90	000A0	5\$:	MOVB	#2, LNK\$AL_RAB+30	:	0756
C8	A3			62	D0	000A4		MOVL	(R2), LNK\$AL_RAB+16	:	0757
CC	A3		04	A2	B0	000A8		MOVW	4(R2), LNK\$AL_RAB+20	:	0758
			B8	A3	9F	000AD		PUSHAB	LNK\$AL_RAB	:	0759
00000000G	00			01	FB	000B0		CALLS	#1, SYS\$FIND	:	
			D6	A3	94	000B7		CLRB	LNK\$AL_RAB+30	:	0760
			2B					BLBS	STATUS, 7\$	:	0761
				50	E8	000BA		PUSHL	LNK\$AL_RAB+12	:	0767
			C4	A3	DD	000BD	6\$:	PUSHL	STATUS	:	
				50	DD	000C0		CLRL	-(SP)	:	0766
				7E	D4	000C2		PUSHL	#LIN\$ FORMAT	:	
		00000000G		8F	DD	000C4		ADDL3	#20, LNK\$GL_CURFIL, -(SP)	:	
7E				14	C1	000CA		ADDL3	#40, LNK\$GL_CUROMD, -(SP)	:	0765
7E	FC	63		28	C1	000CE		MOVZWL	4(R2), -(SP)	:	0766
		A3		A2	3C	000D3		PUSHL	(R2)	:	
		7E	04	62	DD	000D7		PUSHL	#4	:	
				04	DD	000D9		PUSHL	#LIN\$ LIBFIND	:	
				8F	DD	000DB		CALLS	#10, LIB\$SIGNAL	:	
00000000G	00		00000000G	0A	FB	000E1		RET		:	0770
				04	000E8	7\$:				:	

; Routine Size: 233 bytes, Routine Base: \$CODE\$ + 0510


```

662 0771 1 global routine lnk$closefile ( fdbclose ) : novalue =
663 0772 2 begin
664 0773 3
665 0774 3 THIS ROUTINE WILL LOCATE A FILE FOR CLOSING -- IF THE FDB
666 0775 3 IS EXPLICITLY SPECIFIED BY BEING PASSED, THEN THAT FILE IS
667 0776 3 CLOSED, OTHERWISE THE NEXT OPEN FILE LOCATED FROM THE
668 0777 3 OPENCLUS AND OPENFDB POINTERS IS CLOSED.
669 0778 3
670 0779 3
671 0780 3
672 0781 3 routine closeit (fdbclose) : novalue =
673 0782 3 begin
674 0783 3
675 0784 3 ROUTINE TO CLOSE A FILE GIVEN ITS FDB
676 0785 3
677 0786 3 map fdbclose : ref block [,byte];
678 0787 3 bind auxfnb = fdbclose [fdb$st_auxfnb] : block [nam$cln,byte];
679 0788 3 local input_fab : block [fab$cln,byte],
680 0789 3 status ;
681 0790 3
682 0791 3 if .fdbclose [fdb$w_ifi] neq 0 ! IF FILE IS OPEN
683 0792 4 then begin ! AND FILE IS NOT A LIBRARY
684 0793 4 if not .fdbclose [fdb$v_libr]
685 0794 5 then begin
686 0795 5 $fab_init (fab=input_fab);
687 0796 5 input_fab [fab$w_ifi] = .fdbclose [fdb$w_ifi];
688 0797 5 auxfnb [nam$b_rss] = 0;
689 0798 5 auxfnb [nam$b_ess] = 0;
690 0799 5 status = $close (fab=input_fab);
691 0800 5 end
692 0801 5 else begin ! FILE IS A LIBRARY
693 0802 5 status = lbr$close (%ref (.fdbclose [fdb$w_ifi]));
694 0803 5 input_fab [fab$l_stv] = .lbr$gl_rmsstv;
695 0804 5 if .status then [lnk$gl_open_lbr] = .lnk$gl_open_lbr - 1 ;
696 0805 4 end;
697 0806 4
698 0807 4 if not .status
699 0808 4 then signal (lin$_closein,1, fdbclose [fdb$q_filename], .status, .input_fab [fab$l_stv]);
700 0809 4
701 0810 4 fdbclose [fdb$w_ifi] = 0; ! FLAG FILE CLOSED
702 0811 3 end;
703 0812 3 return;
704 0813 2 end; ! OF CLOSEIT
```

.EXTRN SYSS\$CLOSE

				01FC 00000	CLOSEIT: .WORD	Save R2,R3,R4,R5,R6,R7,R8	: 0781
	5E	AC	AE	9E 00002	MOVAB	-84(SP), SP	: 0787
	56	04	AC	D0 00006	MOVL	FDBCLOSE, R6	: 0791
	57	26	A6	9E 0000A	MOVAB	38(R6), R7	: 0793
	58	24	A6	3C 0000E	MOVZWL	36(R6), R8	: 0795
			6A	13 00012	BEQL	5\$	
			01	E0 00014	BBS	#1, 10(R6), 1\$	
0050	8F	2D	0A	00 2C 00019	MOVCS	#0, (SP), #0, #80, \$RMS_PTR	
		00	6E	04 AE 00020			

04	AE	5003	8F	B0	00022	MOVW	#20483, SRMS_PTR	
1A	AE		02	90	00028	MOVB	#2, SRMS_PTR+22	
23	AE		02	90	0002C	MOVB	#2, SRMS_PTR+31	
06	AE		58	B0	00030	MOVW	R8, INPUT_FAB+2	0796
		02	A7	94	00034	CLRB	2(R7)	0797
		0A	A7	94	00037	CLRB	10(R7)	0798
		04	AE	9F	0003A	PUSHAB	INPUT_FAB	0799
00000000G	00		01	FB	0003D	CALLS	#1, SYS\$CLOSE	
	6E		1B	11	00044	BRB	2\$	0793
			58	D0	00046	MOVL	R8, (SP)	0802
00000000G	00		5E	DD	00049	PUSHL	SP	
10	AE	00000000G	01	FB	0004B	CALLS	#1, LBR\$CLOSE	
	07		00	D0	00052	MOVL	LBR\$GL_RMSSTV, INPUT_FAB+12	0803
			50	E9	0005A	BLBC	STATUS, 3\$	0804
		0000'	CF	D7	0005D	DECL	LNK\$GL_OPEN_LBR	
	17		50	E8	00061	BLBS	STATUS, 4\$	0807
		10	AE	DD	00064	PUSHL	INPUT_FAB+12	0808
			50	DD	00067	PUSHL	STATUS	
		14	A6	9F	00069	PUSHAB	20(R6)	
			01	DD	0006C	PUSHL	#1	
00000000G	00	00000000G	8F	DD	0006E	PUSHL	#LINS_CLOSEIN	
			05	FB	00074	CALLS	#5, LIB\$SIGNAL	
		24	A6	B4	0007B	CLRW	36(R6)	0810
			04	0007E	5\$:	RET		0813

; Routine Size: 127 bytes, Routine Base: \$CODE\$ + 05F9

705	0814	2	
706	0815	2	---
707	0816	2	---
708	0817	2	Main body of LNK\$CLOSEFILE
709	0818	2	---
710	0819	2	---
711	0820	2	map
712	0821	2	fdbclose : ref block [,byte];
713	0822	2	builtin
714	0823	2	nullparameter;
715	0824	2	label
716	0825	2	cluster;
717	0826	2	
718	0827	2	if not nullparameter (1)
719	0828	2	then return (closeit (.fdbclose)) ;
720	0829	2	
721	0830	2	if .openclus eql 0
722	0831	2	then begin
723	0832	3	openclus = .lnk\$gl_clulst [0];
724	0833	3	openfdb = .openclus [clu\$l_fstfdb];
725	0834	2	end;
726	0835	2	
727	0836	2	start_fdb = 0;
728	0837	2	
729	0838	2	cluster:
730	0839	3	begin
731	0840	3	while true do
732	0841	4	begin
733	0842	4	while .openfdb neq 0 do

! IF PARTICULAR FILE SPECIFIED
! THEN CLOSE IT AND RETURN

! IF OPEN CLUSTER LIST UNINITIALIZED,
! THEN DO THAT NOW
! FIRST CLUSTER,
! FIRST FDB IN FIRST CLUSTER

! INITIALIZE STARTING FDB

! WHILE NOT AT END OF FDB LIST FOR THIS CLUS


```

: 734      0843 4      if .openfdb [fdb$w_ifi] eql 0      ! IF FILE IS ALREADY CLOSED
: 735      0844 5      then begin
: 736      0845 5          if .start_fdb eql .openfdb      ! BACK TO WHERE WE STARTED, NOTHING FOUND
: 737      0846 6          then begin
: 738      0847 6              if .openclus eql lnk$gl_defclu      ! IF ALREADY AT THE DEFAULT CLUSTER
: 739      0848 7              then begin      ! *** this should be an error report ***
: 740      0849 7                  openclus = 0;      ! FORCE A RESTART FROM THE TOP
: 741      0850 7                  return;      ! GO AWAY FOR NOW
: 742      0851 7              end
: 743      0852 7              else begin
: 744      0853 7                  openclus = lnk$gl_defclu;      ! ELSE, USE DEFAULT CLUSTER
: 745      0854 7                  openfdb = .openclus [clu$l_fstfdb];      ! ALWAYS RESET FDB TO FIRST IN NEW CLUSTER
: 746      0855 7                  end
: 747      0856 6              end
: 748      0857 6          else begin
: 749      0858 6              if .start_fdb eql 0      ! IF STARTING POINT HASN'T BEEN SET YET,
: 750      0859 6              then start_fdb = .openfdb;      ! THEN DO IT NOW
: 751      0860 6              openfdb = .openfdb [fdb$l_nxtfdb];      ! LOOK AT THE NEXT FDB FOR THIS CLUSTER
: 752      0861 6              end
: 753      0862 6          end
: 754      0863 5      else leave cluster;      ! WE HAVE FOUND AN OPEN FILE -- LEAVE
: 755      0864 4
: 756      0865 4      if .openclus [clu$l_nxtclu] eql 0      ! IF AT THE END OF THE CLUSTER LIST
: 757      0866 4      then openclus = .lnk$gl_clulst [0]      ! START AT BEGINNING OF CLUSTER LIST AGAIN
: 758      0867 4      else openclus = .openclus [clu$l_nxtclu];      ! ELSE MOVE ON TO NEXT CLUSTER IN LIST
: 759      0868 4
: 760      0869 4      openfdb = .openclus [clu$l_fstfdb];      ! ALWAYS RESET FDB TO FIRST IN NEW CLUSTER
: 761      0870 4      end;      ! OF CLUSTER
: 762      0871 3      end;      ! GOT A FILE, NOW CLOSE IT
: 763      0872 2
: 764      0873 2      closeit (.openfdb);
: 765      0874 2      openfdb = .openfdb [fdb$l_nxtfdb];
: 766      0875 2
: 767      0876 2
: 768      0877 2      return;
: 769      0878 1      end;      ! OF LNK$CLOSEFILE
```

				001C 00000	.ENTRY LNK\$CLOSEFILE, Save R2,R3,R4	0771
	54	00000000G	00	9E 00002	MOVAB LNK\$GL_DEFCLU, R4	
	53	00000000G	00	9E 00009	MOVAB LNK\$GL_CLULST, R3	
	52	0000'	CF	9E 00010	MOVAB OPENCLOS, R2	
			6C	05 00015	TSTB (AP)	0827
			0E	00017	BEQL 1\$	
		04	AC	2 00019	TSTL 4(AP)	
			09	13 0001C	BEQL 1\$	
		04	AC	DD 0001E	PUSHL FDBCLOSE	0828
FF5B	CF		01	FB 00021	CALLS #1, CLOSEIT	
				04 00026	RET	
			62	D5 00027 1\$:	TSTL OPENCLUS	0830
			0B	12 00029	BNEQ 2\$	
	62		63	D0 0002B	MOVL LNK\$GL_CLULST, OPENCLUS	0832
	50		62	D0 0002E	MOVL OPENCLOS, R0	0833
04	A2	08	A0	D0 00031	MOVL 8(R0), OPENFDB	

		08	A2	D4	00036	2\$:	CLRL	START_FDB		0836
	51	04	A2	D0	00039	3\$:	MOVL	OPENFDB, R1		0842
			2A	13	0003D		BEQL	7\$		
		24	A1	B5	0003F		TSTW	36(R1)		0843
			3D	12	00042		BNEQ	10\$		
	51	08	A2	D1	00044		CMPL	START_FDB, R1		0845
			10	12	00048		BNEQ	5\$		
	50		64	9E	0004A		MOVAB	LNK\$GL_DEFCLU, R0		0847
	50		62	D1	0004D		CMPL	OPENCLUS, R0		
			03	12	00050		BNEQ	4\$		
			62	D4	00052		CLRL	OPENCLUS		0849
				04	00054		RET			0848
	62		64	9E	00055	4\$:	MOVAB	LNK\$GL_DEFCLU, OPENCLUS		0853
			1D	11	00058		BRB	9\$		0854
		08	A2	D5	0005A	5\$:	TSTL	START_FDB		0858
			04	12	0005D		BNEQ	6\$		
08	A2		51	D0	0005F		MOVL	R1, START_FDB		0859
04	A2		61	D0	00063	6\$:	MOVL	(R1), OPENFDB		0861
			D0	11	00067		BRB	3\$		0844
	50	00	B2	D0	00069	7\$:	MOVL	@OPENCLUS, R0		0866
			05	12	0006D		BNEQ	8\$		
	62		63	D0	0006F		MOVL	LNK\$GL_CLULST, OPENCLUS		0867
			03	11	00072		BRB	9\$		
	62		50	D0	00074	8\$:	MOVL	R0, OPENCLUS		0868
	50		62	D0	00077	9\$:	MOVL	OPENCLUS, R0		0870
04	A2	08	A0	D0	0007A		MOVL	8(R0), OPENFDB		
			B8	11	0007F		BRB	3\$		0840
		04	A2	DD	00081	10\$:	PUSHL	OPENFDB		0874
FEF8	CF		01	FB	00084		CALLS	#1, CLOSEIT		
04	A2	04	B2	D0	00089		MOVL	@OPENFDB, OPENFDB		0875
			04	0008E			RET			0878

; Routine Size: 143 bytes, Routine Base: \$CODE\$ + 0678


```

771 0879 1 routine tran_next_lib =
772 0880 1
773 0881 1 THIS ROUTINE RETURNS THE VALUE TRUE IF THERE IS ANOTHER DEFAULT LIBRARY
774 0882 1 TO PROCESS AND FALSE IF NOT. IF THERE IS ANOTHER LIBRARY, THE FILENAME
775 0883 1 IS SET UP IN THE VECTOR RESULTSTRING WITH ITS DESCRIPTOR IN LIBNAMDESCR.
776 0884 1
777 0885 2 begin
778 0886 2 bind
779 0887 2 maxliblng = %charcount ('LNK$LIBRARY_999'); ! MAX LIBRARY LOGICAL NAME LENGTH
780 0888 2 own
781 0889 2 lnklibnam : vector [%charcount('LNK$LIBRARY')+1, byte] ! THE INITIAL DEFAULT LIBRARY NAME
782 0890 2 initial (%ascii'LNK$LIBRARY');
783 0891 2 local
784 0892 2 trancode,
785 0893 2 deflibnam : vector [maxliblng, byte], ! TO RECEIVE THE FORMATTED LOGICAL NAME
786 0894 2 namptr : vector [2]; ! DESCRIPTOR OF DEFLIBNAM
787 0895 2
788 0896 2 if .lnk$gl_ulibmask [2 - .deflibacmode] neq 0 ! IF THIS LOGICAL NAME TABLE ENABLED
789 0897 2 then begin
790 0898 2 namptr[0] = maxliblng; ! INIT THE DESCRIPTOR
791 0899 2 namptr[1] = deflibnam;
792 0900 2 if .userlibno eq 0 ! IF THIS IS FIRST IN THIS TABLE
793 0901 2 then begin
794 0902 2 namptr[0] = %charcount ('LNK$LIBRARY'); ! SET THE COPY LENGTH
795 0903 2 ch$move (.namptr [0], lnklibnam [0], deflibnam); ! COPY THE NAME
796 0904 2 end
797 0905 2 else if not sys$fao(libnamefao,namptr,namptr,.userlibno) ! OTHERWISE MUST FAO IT
798 0906 2 then return false; ! AND GIVE UP IF IT FAILS
799 0907 2
800 0908 2 ! NOW TRANSLATE THE LOGICAL NAME
801 0909 2
802 0910 2 libnamdescr [0] = nam$c_maxrss; ! RESET STRING DESCRIPTOR
803 0911 2 trancode = $trnlog (lognam = namptr ! TRANSLATE THE NAME
804 0912 2 ,dsbmsk = .deflibdsbmsk [.deflibacmode]
805 0913 2 ,rsllen = libnamdescr
806 0914 2 ,rslbuf = libnamdescr
807 0915 2 );
808 0916 2 if (.trancode and (.trancode neq ss$_notran)) ! IF GOT A GOOD NAME RETURN WITH IT
809 0917 2 then return true;
810 0918 2 end;
811 0919 2
812 0920 2 ! FAILED. MOVE ON TO NEXT GROUP
813 0921 2
814 0922 2 if (deflibacmode = .deflibacmode+1) gtr 2 ! BUT IF WE ARE ALL DONE
815 0923 2 then return false; ! THEN RETURN NO MORE
816 0924 2
817 0925 2 userlibno = 0; ! OTHERWISE RESET LIBRARY NUMBER
818 0926 2 return tran_next_lib (); ! AND RECURSE TO RETURN NEXT LIBRARY
819 0927 1 end;
```

.PSECT \$OWNS,NOEXE,2

00 59 52 41 52 42 49 4C 24 4B 4E 4C 001B4 LNKLIBNAM:

.ASCII \LNK\$LIBRARY\<0>

MAXLIBLNG= 15
.EXTRN SYS\$TRNLOG
.PSECT \$CODE\$,NOWRT,2

		007C 00000 TRAN_NEXT LIB:				
	56	0000'	CF 9E 00002	.WORD	Save R2,R3,R4,R5,R6	0879
	5E		18 C2 00007	MOVAB	DEFLIBACMODE, R6	
	50		66 9A 0000A	SUBL2	#24, SP	
51 00000000G	50		50 C3 0000D	MOVZBL	DEFLIBACMODE, R0	0896
	02		50 EF 00011	SUBL3	R0, #2, R0	
	01		61 13 0001A	EXTZV	R0, #1, LNK\$GL_ULIBMASK, R1	
	6E		0F D0 0001C	BEQL	3\$	
	04	08	AE 9E 0001F	MOVL	#15, NAMPTR	0898
	AE	FA	A6 D0 00024	MOVAB	DEFLIBNAM, NAMPTR+4	0899
	50		0C 12 00028	MOVL	USERLIBNO, R0	0900
	6E		0B D0 0002A	BNEQ	1\$	
08 AE 010E	C6		6E 28 0002D	MOVL	#11, NAMPTR	0902
			15 11 00034	MOVCL	NAMPTR, LNKLIBNAM, DEFLIBNAM	0903
			50 DD 00036	BRB	2\$	0900
		04	AE 9F 00038	PUSHL	R0	0905
		08	AE 9F 0003B	PUSHAB	NAMPTR	
		E6	A6 9F 0003E	PUSHAB	NAMPTR	
	00000000G	00	04 FB 00041	PUSHAB	LIBNAMEFAO	
	48		50 E9 00048	CALLS	#4, SYS\$FAO	
0106	C6	FF	8F 9A 0004B	BLBC	R0, 4\$	
	50		66 9A 00051	MOVZBL	#255, LIBNAMDESCR	0910
	7E	02	A6 40 9A 00054	MOVZBL	DEFLIBACMODE, R0	0915
			7E 7C 00059	MOVZBL	DEFLIBDSBMSK[R0], -(SP)	
		0106	C6 9F 0005B	CLRQ	-(SP)	
		0106	C6 9F 0005F	PUSHAB	LIBNAMDESCR	
		14	AE 9F 00063	PUSHAB	LIBNAMDESCR	
	00000000G	00	06 FB 00066	PUSHAB	NAMPTR	
	0D		50 E9 0006D	CALLS	#6, SYS\$TRNLOG	
00000629	8F		50 D1 00070	BLBC	TRANCODE, 3\$	0916
			04 13 00077	CMPL	TRANCODE, #1577	
	50		01 D0 00079	BEQL	3\$	
			04 0007C	MOVL	#1, R0	0917
	50		66 9A 0007D	RET		
			50 D6 00080	MOVZBL	DEFLIBACMODE, R0	0922
	66		50 90 00082	INCL	R0	
	02		50 D1 00085	MOVB	R0, DEFLIBACMODE	
			09 14 00088	CMPL	R0, #2	
		FA	A6 D4 0008A	BGTR	4\$	
FF6E	CF		00 FB 0008D	CLRL	USERLIBNO	0925
			04 00092	CALLS	#0, TRAN_NEXT_LIB	0926
			50 D4 00093	RET		
			04 00095	CLRL	R0	0927
				RET		

; Routine Size: 150 bytes, Routine Base: \$CODE\$ + 0707


```

821 0928 1 global routine lnk$openlib (nameblock, an_open_fdb) =
822 0929 1
823 0930 1 THIS ROUTINE OPENS A LIBRARY FILE USING THE LIBRARY ACCESS PROCEDURES.
824 0931 1
825 0932 2 begin
826 0933 2 map
827 0934 2     nameblock      : ref block [,byte] ;
828 0935 2 local
829 0936 2     status,
830 0937 2     libraryfunc    : initial (lbr$read),
831 0938 2     fdb_to_close   : initial (0),
832 0939 2     close_lib      : initial (false),
833 0940 2     init_lib       : initial (false),
834 0941 2     filnamdesc     : block [dsc$s_bln,byte],
835 0942 2     index ;
836 0943 2 builtin
837 0944 2     nullparameter ;
838 0945 2 bind
839 0946 2     fdbfilename = lnk$gl_curfil [fdb$q_filename] : block [,byte] ;
840 0947 2
841 0948 2
842 0949 2 if .nameblock [nam$w_fid_num] neq 0                ! IF FILE HAS BEEN OPENED
843 0950 2 and .lnk$gl_curfil [fdb$w_ifi] neq 0            ! AND IS OPENED NOW
844 0951 2 then return true ;                               ! THEN WE'RE DONE
845 0952 2
846 0953 2 if not nullparameter(2) then fdb_to_close = .an_open_fdb ; ! DETERMINE FDB TO BE CLOSED NEXT
847 0954 2
848 0955 2 $getipi (itmlst=lnk$gt_jpilst) ;                    ! WE MAY NEED TO CLOSE ONE SO THAT
849 0956 2 if .lnk$gl_filesleft leq 3 then close_lib = true ; ! WE CAN OPEN ANOTHER
850 0957 2
851 0958 2 do begin
852 0959 2     if .close_lib
853 0960 2     then begin                                     ! THEN CLOSE A FILE AND TRY AGAIN
854 0961 2         lnk$closefile (.fdb_to_close) ;
855 0962 2         fdb_to_close = 0 ;
856 0963 2     end
857 0964 2     else close lib = true ;
858 0965 2     status = lbr$ini_control (index,libraryfunc,0,.nameblock) ; ! CLOSE A FILE NEXT TIME THRU THE LOOP
859 0966 2     end                                             ! INITIALIZE INDEX
860 0967 2 until .status neq lbr$_toomnylib ;
861 0968 2
862 0969 2 if not .status then return .status ;
863 0970 2 if .nameblock [nam$w_fid_num] eql 0                ! IF FILE HAS NEVER BEEN OPENED...
864 0971 2 then begin
865 0972 2     status = lbr$open (index, lnk$gl_curfil [fdb$q_usrnamdsc]
866 0973 2                     , 0, lnk$gl_curfil [fdb$w_defnamlen]
867 0974 2                     ) ;
868 0975 2     fdbfilename [dsc$w_length] = .nameblock [nam$b_rsl] ; ! SET NAME DESCRIPTOR
869 0976 2     fdbfilename [dsc$a_pointer] = .nameblock [nam$l_rsa] ;
870 0977 2     end
871 0978 2 else status = lbr$open (index) ;                     ! IN PASS 2 CAN OPEN BY NAM BLOCK
872 0979 2
873 0980 2 if .status
874 0981 2 then begin
875 0982 2     lnk$gl_open_lbr = .lnk$gl_open_lbr + 1 ;
876 0983 2     lnk$gl_curfil [fdb$w_ifi] = .index ;              ! IF SUCCESSFUL OPEN, SET INDEX FOR CLOSE
877 0984 2     lbr$gl_control [lbr$v_locate] = true ;            ! SET LOCATE MODE

```

```

: 878      0985      3
: 879      0986      3
: 880      0987      3
: 881      0988      3
: 882      0989      3
: 883      0990      3
: 884      0991      3
: 885      0992      4
: 886      0993      4
: 887      0994      4
: 888      0995      3
: 889      0996      2
: 890      0997      2
: 891      0998      2
: 892      0999      1

      if .lbr$gl_rmsstv egl lbr$c_typ_shstb
      then lnk$gl_curfil [fdb$y_imglib] = true
      else if .lbr$gl_rmsstv neq lbr$c_typ_obj
      then signal_stop (lin$notobjlib,1,fdbfilename) ;
      ! IF SHAREABLE IMAGE SYMBOL TABLE LIBRARY
      ! THEN MARK IT AS SUCH
      ! OTHERWISE IF NOT AN OBJECT LIBRARY
      ! THEN SIGNAL ERROR AND GIVE UP

      if .lnk$al_rab [rab$w_usz] egl 0
      then begin
        lnk$al_rab [rab$w_usz] = obj$c_maxrecsiz ;
        lnk$al[oblk (.lnk$al_rab [rab$w_usz], lnk$al_rab [rab$l_ubf]) ;
      end ;

      return .status
      end ;

      ! OF LNK$OPENLIB
```

58	00000000G	00	9E	00002	.ENTRY	LNK\$OPENLIB, Save R2,R3,R4,R5,R6,R7,R8	: 0928
57	0000'	CF	9E	00009	MOVAB	LBR\$OPEN, R8	:
5E		0C	C2	0000E	MOVAB	LNK\$GL_CURFIL, R7	:
		01	DD	00011	SUBL2	#12, SP	:
		53	7C	00013	PUSHL	#1	: 0932
		50	D4	00015	CLRQ	CLOSE_LIB	:
50		67	D0	00017	CLRL	INIT_LIB	:
55	14	A0	9E	0001A	MOVL	LNK\$GL_CURFIL, R0	: 0946
52	04	AC	D0	0001E	MOVAB	20(R0), R5	:
	24	A2	B5	00022	MOVL	NAMEBLOCK, R2	: 0949
		09	13	00025	TSTW	36(R2)	:
	24	A0	B5	00027	BEQL	1\$	:
		04	13	0002A	TSTW	36(R0)	: 0950
50		01	D0	0002C	BEQL	1\$	:
		04	0002F	MOVL	#1, R0	: 0951	
02		6C	91	00030	RET		:
		09	1F	00033	CMPB	(AP), #2	: 0953
	08	AC	D5	00035	BLSSU	2\$	:
		04	13	00038	TSTL	8(AP)	:
54	08	AC	D0	0003A	BEQL	2\$	:
		7E	7C	0003E	MOVL	AN_OPEN_FDB, FDB_TO_CLOSE	:
		7E	D4	00040	CLRQ	-(SP)	: 0955
	00000000G	00	9F	00042	CLRL	-(SP)	:
		7E	7C	00048	PUSHAB	LNK\$GT_JPILST	:
		7E	D4	0004A	CLRQ	-(SP)	:
00000000G	00	07	FB	0004C	CLRL	-(SP)	:
	03	00	D1	00053	CALLS	#7, SYSS\$GETJPI	:
		03	14	0005A	CMP	LNK\$GL_FILESLEFT, #3	: 0956
53		01	D0	0005C	BGTR	3\$	:
0B		53	E9	0005F	MOVL	#1, CLOSE_LIB	: 0959
		54	DD	00062	BLBC	CLOSE_LIB, 4\$	: 0961
FE72	CF	01	FB	00064	PUSHL	FDB_TO_CLOSE	:
		54	D4	00069	CALLS	#1, LNK\$CLOSEFILE	:
		03	11	0006B	CLRL	FDB_TO_CLOSE	: 0962
		01	D0	0006D	BRB	5\$	: 0959
53		01	D0	0006D	MOVL	#1, CLOSE_LIB	: 0964
		52	DD	00070	PUSHL	R2	: 0965

			7E	D4	00072	CLRL	-(SP)	
		08	AE	9F	00074	PUSHAB	LIBRARYFUNC	
		10	AE	9F	00077	PUSHAB	INDEX	
	00000000G	00	04	FB	0007A	CALLS	#4, LBR\$INI_CONTROL	
		56	50	D0	00081	MOVL	R0, STATUS	
	00000000G	8F	56	D1	00084	CMPL	STATUS, #LBR\$_TOOMNYLIB	0967
			D2	13	0008B	BEQL	3\$	
		2C	56	E9	0008D	BLBC	STATUS, 7\$	0969
			24	A2	B5	TSTW	36(R2)	0970
			1E	12	00093	BNEQ	6\$	
7E		67	14	C1	00095	ADDL3	#20, LNK\$GL_CURFIL, -(SP)	0973
			7E	D4	00099	CLRL	-(SP)	
7E		67	0C	C1	0009B	ADDL3	#12, LNK\$GL_CURFIL, -(SP)	0972
			10	AE	9F	PUSHAB	INDEX	
			04	FB	000A2	CALLS	#4, LBR\$OPEN	0973
		68	50	D0	000A5	MOVL	R0, STATUS	
		56	A2	9B	000A8	MOVZBW	3(R2), (R5)	0975
	04	65	03	A2	D0	MOVL	4(R2), 4(R5)	0976
		A5	04	09	11	BRB	7\$	0970
			04	AE	9F	PUSHAB	INDEX	0978
		68	01	FB	000B6	CALLS	#1, LBR\$OPEN	
		56	50	D0	000B9	MOVL	R0, STATUS	
		57	56	E9	000BC	BLBC	STATUS, 10\$	0980
			AC	A7	D6	INCL	LNK\$GL_OPEN_LBR	0982
		51	67	D0	000C2	MOVL	LNK\$GL_CURFIL, R1	0983
	24	A1	04	AE	B0	MOVW	INDEX, 36(R1)	
		50	00000000G	00	D0	MOVL	LBR\$GL_CONTROL, R0	0984
	06	A0	01	88	000D1	BISB2	#1, 6(R0)	
		50	00000000G	00	D0	MOVL	LBR\$GL_RMSSTV, R0	0986
		05	50	D1	000DC	CMPL	R0, #5	
			06	12	000DF	BNEQ	8\$	
	0B	A1	01	88	000E1	BISB2	#1, 11(R1)	0987
			16	11	000E5	BRB	9\$	
		01	50	D1	000E7	CMPL	R0, #1	0988
			11	13	000EA	BEQL	9\$	
			55	DD	000EC	PUSHL	R5	0989
			01	DD	000EE	PUSHL	#1	
	00000000G	00	8F	DD	000F0	PUSHL	#LINS_NOTOBJLIB	
			03	FB	000F6	CALLS	#3, LIB\$STOP	
		D8	A7	B5	000FD	TSTW	LNK\$AL_RAB+32	0991
			14	12	00100	BNEQ	10\$	
	D8	A7	0800	8F	B0	MOVW	#2048, LNK\$AL_RAB+32	0993
			DC	A7	9F	PUSHAB	LNK\$AL_RAB+36	0994
			D8	A7	3C	MOVZWL	LNK\$AL_RAB+32, -(SP)	
	00000000G	00	02	FB	0010F	CALLS	#2, LNK\$ALLOBLK	
		50	56	D0	00116	MOVL	STATUS, R0	0998
			04	00119	RET			0999

; Routine Size: 282 bytes, Routine Base: \$CODE\$ + 079D

; 893 1000 1
; 894 1001 0 end eludom

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	88	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	448	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	80	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	2231	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
. ABS .	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	107	1	581	00:01.0
\$255\$DUA28:[LINKER.OBJ]DATBAS.L32;1	538	36	6	28	00:00.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:LNKOBJFIL/OBJ=OBJ\$:LNKOBJFIL MSRC\$:LNKOBJFIL/UPDATE=(ENH\$:LNKOBJFIL)

: Size: 2231 code + 616 data bytes
: Run Time: 00:41.7
: Elapsed Time: 01:32.2
: Lines/CPU Min: 1442
: Lexemes/CPU-Min: 23402
: Memory Used: 339 pages
: Compilation Complete

0217

AH-BT13A-SE
 VAX/VMS V4.0

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